



Wisconsin Public Service Corporation
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December 11, 2012

FERC Project No. 2595

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First Street NE
Washington, DC 20426

Dear Secretary Bose:

Re: 2012 Water Quality Monitoring Report – High Falls Hydroelectric Project

Pursuant to the Water Quality Monitoring Plan for the High Falls Hydroelectric project, Wisconsin Public Service Corporation (WPSC) is pleased to submit the results of water quality monitoring conducted during the 2012 monitoring season.

As described in the monitoring plan, water quality monitoring is conducted downstream of the powerhouse annually from June 1st through September 30th. Monitoring downstream of the powerhouse is conducted where High Falls Road crosses the Peshtigo River (NE ¼ of the SW ¼, Section 1, T32N, R18E). Monitoring upstream of the project occurs every 5 years in conjunction with water quality monitoring conducted at the Caldron Falls Hydroelectric Project. Upstream monitoring was conducted in 2011 and is scheduled to occur again in 2016.

Monitoring data for dissolved oxygen (DO), temperature, and pH was collected at one-hour intervals on a continuous basis. Data was collected using portable water quality monitoring equipment manufactured by Hydrolab, Inc. As described in the Water Quality Monitoring Plan for the project, the instrumentation was cleaned and calibrated according to manufacturer specification every 7-10 days during the monitoring period. A post deployment calibration was conducted to determine the extent of calibration drift. Raw data was adjusted assuming a linear degradation of calibration based upon a post calibration of the equipment. The water quality monitoring equipment used to monitor dissolved oxygen has an accuracy of +/- 0.1 mg/l, per the manufacturer. For compliance purposes, dissolved oxygen concentrations more than 0.1 mg/l below the applicable water quality standard, are potential deviations.

Ms. Kimberly D. Bose, Secretary

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Per the Project License, WPSC is required to ensure flow releases from the project, as measured immediately downstream from the dam, maintain the following standards, except when natural conditions prohibit attainment of the standards: (1) DO concentrations shall not be less than 5.0 milligrams per liter (mg/L) (minus the precision of the monitoring instrument) for more than 24 hours per year; (2) water temperature shall not exceed 89 degrees Fahrenheit; and (3) the pH shall be within the range of 6.0 to 9.0, with no change greater than 0.5 units outside the estimated natural seasonal maximum and minimum. Natural conditions include inflows to the project less than the 95 percent exceedance flow.

No deviations from the dissolved oxygen, pH or temperature water quality standards were observed during the 2012 monitoring season. There were 5 hours of missing monitoring data due to the maintenance and calibration of the monitoring equipment, 4 hours of missing data due to an equipment malfunction, and 4 hours of missing DO data due to a sensor failure on the monitoring equipment. Water quality monitoring data is enclosed in Attachment A.

A summary of the 2012 monitoring data was provided to the Wisconsin Department of Natural Resources (WDNR) and U.S. Fish & Wildlife (FWS) for review and comment on October 4, 2012. Documentation of agency consultation is included in Attachment B. Should you have any questions or concerns, please do not hesitate to call Mr. Mark Metcalf at (920) 433-1833.

Sincerely,



Terry P. Jensky

Vice President - Generation Assets
Wisconsin Public Service Corporation

Enc: 2012 Water Quality Monitoring Data and Agency Correspondence

cc: Mr. Gil Snyder, WPSC - D2
 Mr. Shawn Puzen, IBS - D2
 Ms. Joan Johanek, WPSC - D2
 Mr. Dave Giesler, IBS - D2
 Mr. John Myers, IBS - D2
 Mr. John Zygaj, FERC - CRO

Mr. Bill Bosacki, WPSC - D2
Mr. Nick Utrup - FWS
Ms. Cheryl Laatsch - WDNR
Mr. Bill Bloczynski, WPSC MERH
Mr. Ed Brandt, WPSC - CRI

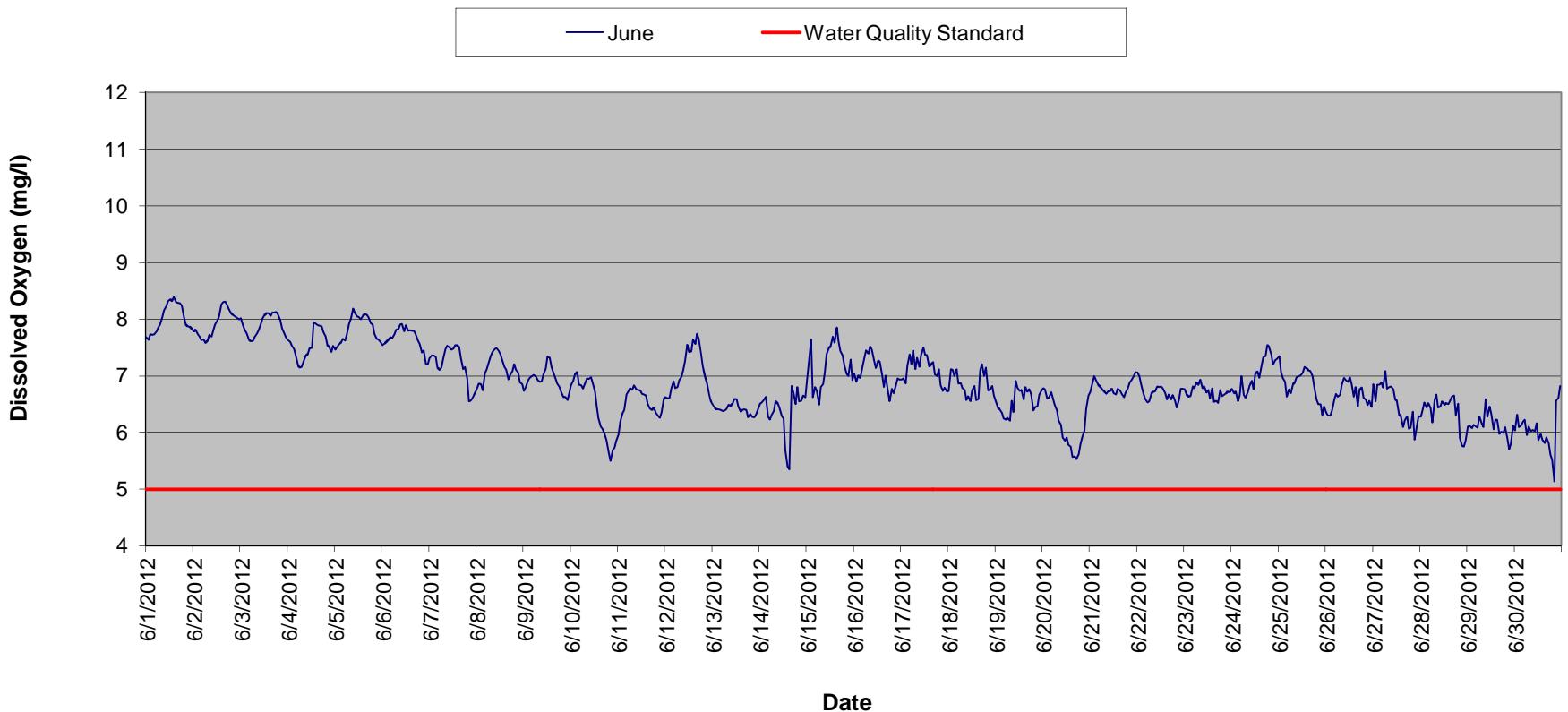
Attachment A

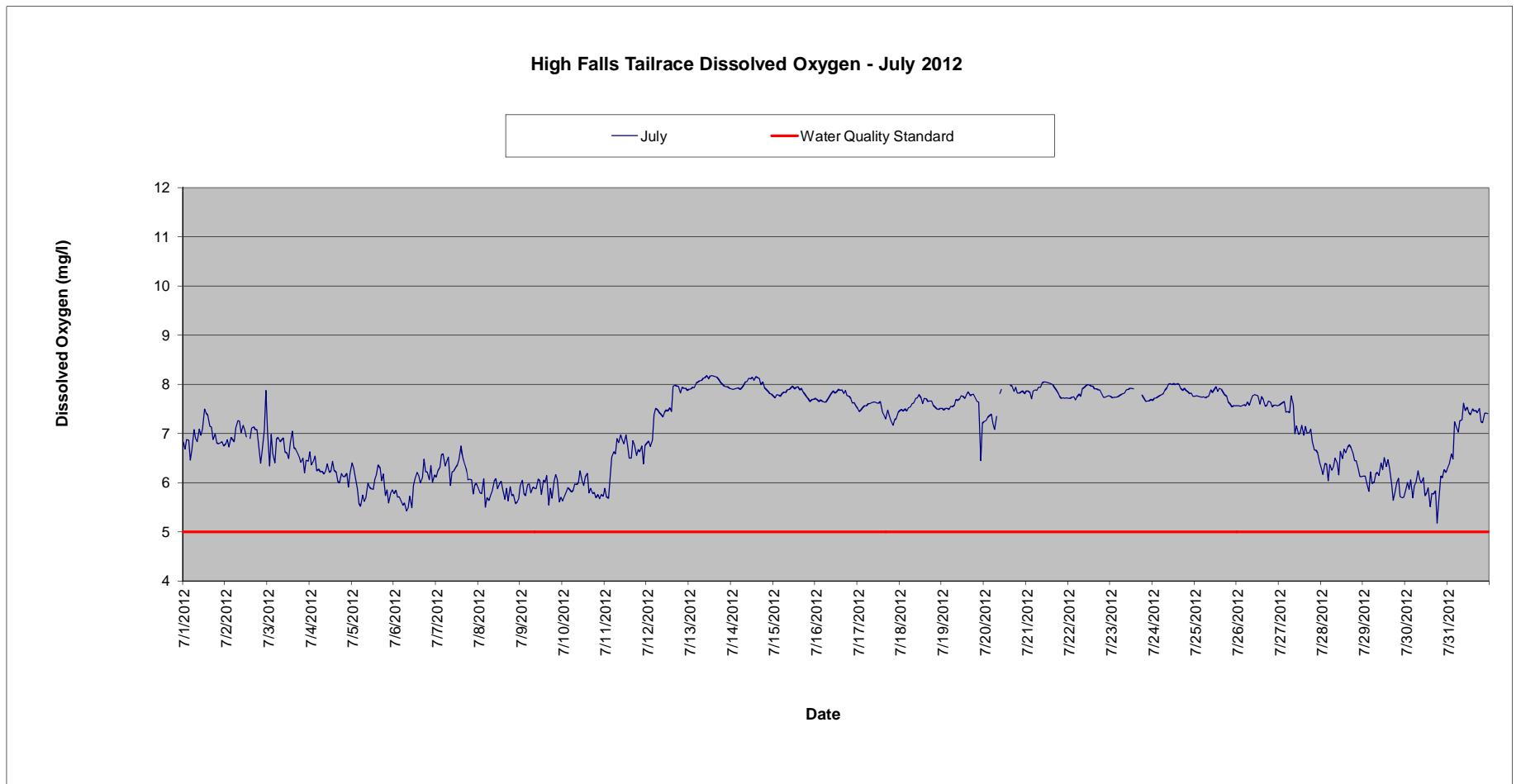
High Falls Hydroelectric Project

FERC No. 2595

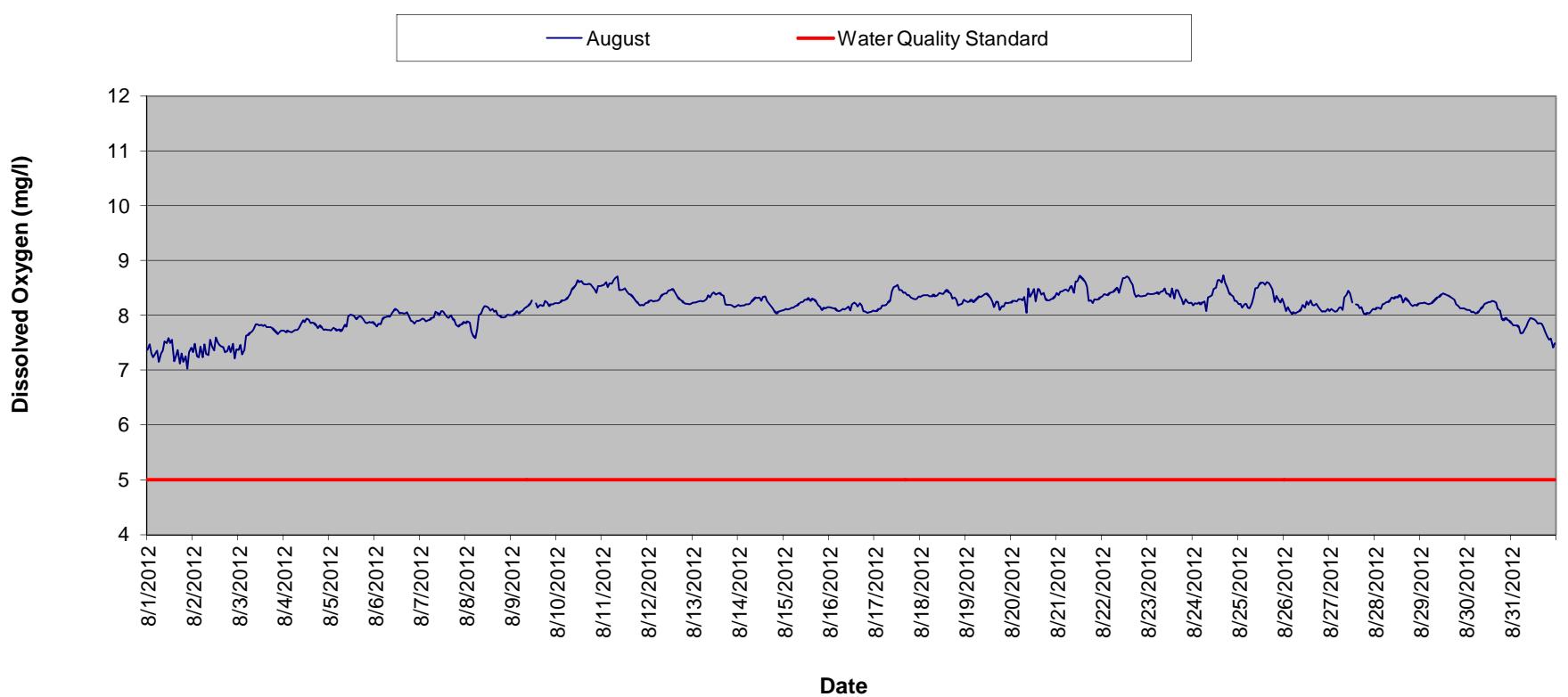
2012 Water Quality Monitoring Data

High Falls Tailrace Dissolved Oxygen - June 2012

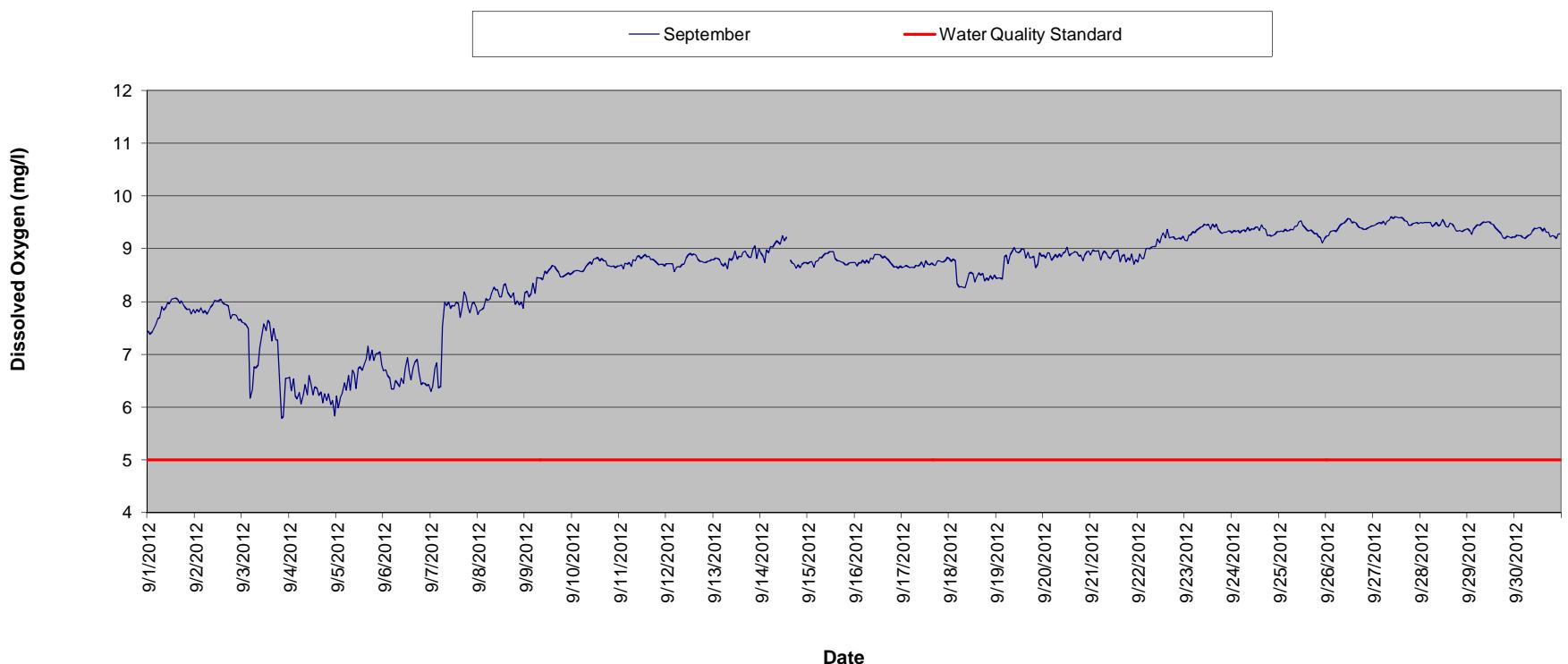




High Falls Tailrace Dissolved Oxygen - August 2012



High Falls Tailrace Dissolved Oxygen - September 2012



High Falls Tailrace Dissolved Oxygen Summary - June 2012

Time HHMMSS	06/01/12	06/02/12	06/03/12	06/04/12	06/05/12	06/06/12	06/07/12	06/08/12	06/09/12	06/10/12	06/11/12	06/12/12	06/13/12	06/14/12	06/15/12	06/16/12
0	7.7	7.8	8.0	7.6	7.5	7.5	7.3	6.8	6.7	6.8	6.0	6.6	6.5	6.5	6.9	7.1
10000	7.6	7.8	7.9	7.6	7.5	7.6	7.4	6.9	6.8	6.9	6.2	6.6	6.4	6.5	7.3	6.9
20000	7.7	7.7	7.8	7.5	7.6	7.6	7.4	6.9	6.9	7.0	6.3	6.6	6.4	6.6	7.6	7.0
30000	7.7	7.7	7.8	7.5	7.6	7.6	7.3	6.7	7.0	7.1	6.4	6.8	6.4	6.6	6.6	7.0
40000	7.7	7.6	7.6	7.3	7.7	7.7	7.1	7.0	7.0	6.8	6.7	6.9	6.4	6.3	6.8	7.1
50000	7.8	7.6	7.6	7.2	7.6	7.7	7.1	7.1	7.0	6.8	6.7	6.8	6.4	6.2	6.7	7.3
60000	7.9	7.6	7.6	7.1	7.7	7.7	7.1	7.2	7.0	6.8	6.8	6.8	6.4	6.3	6.5	7.5
70000	7.9	7.6	7.7	7.2	7.9	7.8	7.3	7.4	6.9	6.9	6.8	6.9	6.4	6.4	6.8	7.4
80000	8.0	7.7	7.7	7.3	8.0	7.8	7.5	7.4	6.9	7.0	6.8	7.0	6.5	6.6	6.9	7.5
90000	8.2	7.7	7.8	7.4	8.2	7.9	7.5	7.5	6.9	6.9	6.8	7.1	6.5	6.5	7.1	7.5
100000	8.2	7.8	7.9	7.4	8.1	7.9	7.5	7.5	7.0	7.0	6.8	7.3	6.5	6.4	7.4	7.3
110000	8.3	7.9	8.0	7.5	8.0	7.8	7.5	7.4	7.1	6.9	6.7	7.6	6.6	6.3	7.5	7.1
120000	8.4	8.0	8.1	7.5	8.0	7.9	7.5	7.4	7.3	6.7	6.7	7.4	6.6	6.3	7.5	7.3
130000	8.3	8.0	8.1	7.9	8.0	7.8	7.5	7.3	7.3	6.5	6.7	7.4	6.5	5.7	7.7	7.2
140000	8.4	8.3	8.1	7.9	8.1	7.8	7.5	7.2	7.2	6.2	6.7	7.6	6.4	5.4	7.6	7.0
150000	8.3	8.3	8.1	7.9	8.1	7.8	7.5	7.1	7.0	6.1	6.5	7.6	6.4	5.4	7.9	6.8
160000	8.3	8.3	8.1	7.9	8.1	7.8	7.3	6.9	7.0	6.1	6.4	7.7	6.4	6.8	7.6	7.0
170000	8.3	8.3	8.1	7.9	8.0	7.7	7.1	7.0	6.9	6.0	6.4	7.7	6.4	6.7	7.4	6.7
180000	8.2	8.2	8.1	7.8	7.9	7.6	7.2	7.1	6.8	5.9	6.4	7.4	6.3	6.5	7.4	6.6
190000	8.0	8.1	8.1	7.7	7.9	7.6	7.0	7.2	6.7	5.6	6.3	7.2	6.3	6.8	7.2	6.8
200000	7.9	8.1	8.0	7.5	7.7	7.4	6.6	7.1	6.6	5.5	6.3	7.0	6.3	6.6	7.0	6.7
210000	7.9	8.0	7.8	7.5	7.7	7.4	6.6	7.1	6.6	5.7	6.3	6.9	6.3	6.6	7.0	6.8
220000	7.9	8.0	7.7	7.4	7.6	7.2	6.6	6.9	6.6	5.7	6.3	6.7	6.3	6.7	7.3	7.0
230000	7.8	8.0	7.7	7.5	7.6	7.2	6.7	6.9	6.7	5.8	6.6	6.6	6.4	6.6	6.9	6.9
Daily Max	8.4	8.3	8.1	7.9	8.2	7.9	7.5	7.5	7.3	7.1	6.8	7.7	6.6	6.8	7.9	7.5
Daily Min	7.6	7.6	7.6	7.1	7.5	7.2	6.6	6.7	6.6	5.5	6.0	6.6	6.3	5.4	6.5	6.6
Average	8.0	7.9	7.9	7.5	7.8	7.7	7.2	7.1	6.9	6.4	6.5	7.1	6.4	6.4	7.2	7.1

License Minimum DO: 5.0 mg/l

High Falls Tailrace Dissolved Oxygen Summary - June 2012

Time HHMMSS	06/17/12	06/18/12	06/19/12	06/20/12	06/21/12	06/22/12	06/23/12	06/24/12	06/25/12	06/26/12	06/27/12	06/28/12	06/29/12	06/30/12
0	6.9	6.7	6.5	6.8	6.7	7.1	6.8	6.8	7.4	6.4	6.9	6.3	6.1	6.0
10000	7.0	7.1	6.4	6.8	6.9	7.0	6.7	6.7	7.1	6.3	6.6	6.4	6.1	6.3
20000	6.9	7.1	6.4	6.6	7.0	6.8	6.6	6.7	7.0	6.3	6.8	6.5	6.1	6.1
30000	7.2	7.0	6.4	6.6	6.9	6.7	6.6	6.6	6.9	6.4	6.8	6.4	6.1	6.1
40000	7.4	7.1	6.3	6.7	6.8	6.6	6.8	6.7	6.6	6.6	6.9	6.5	6.1	6.2
50000	7.2	6.9	6.2	6.6	6.8	6.5	6.8	7.0	6.8	6.7	6.8	6.4	6.1	6.2
60000	7.5	6.9	6.3	6.5	6.8	6.6	6.9	6.7	6.7	6.6	7.1	6.2	6.3	6.0
70000	7.1	6.8	6.2	6.4	6.7	6.7	6.8	6.6	6.9	6.7	6.8	6.6	6.2	6.1
80000	7.3	6.8	6.6	6.2	6.7	6.7	6.9	6.7	6.9	6.8	6.8	6.7	6.1	6.0
90000	7.2	6.6	6.4	6.1	6.7	6.7	6.8	6.8	7.0	7.0	6.8	6.4	6.6	6.0
100000	7.4	6.6	6.9	5.9	6.7	6.8	6.8	6.9	7.0	6.9	6.8	6.5	6.3	6.0
110000	7.5	6.6	6.8	5.9	6.8	6.8	6.7	6.8	7.0	6.9	6.6	6.6	6.5	6.2
120000	7.4	6.7	6.7	5.9	6.7	6.8	6.8	7.0	7.1	7.0	6.6	6.5	6.3	5.9
130000	7.4	6.8	6.8	5.8	6.7	6.8	6.6	7.1	7.2	6.9	6.3	6.5	6.1	6.0
140000	7.2	6.6	6.6	5.8	6.8	6.7	6.8	7.0	7.1	6.6	6.3	6.5	6.2	5.9
150000	7.2	6.6	6.8	5.6	6.7	6.6	6.5	7.2	7.1	6.8	6.1	6.6	6.2	5.8
160000	7.2	7.1	6.7	5.6	6.7	6.7	6.6	7.3	7.1	6.5	6.2	6.6	6.0	5.9
170000	7.0	7.2	6.8	5.5	6.6	6.6	6.5	7.4	7.0	6.8	6.3	6.7	6.0	5.8
180000	7.0	7.0	6.7	5.6	6.7	6.7	6.8	7.5	6.8	6.8	6.1	6.3	6.0	5.6
190000	7.1	7.2	6.4	5.8	6.8	6.6	6.6	7.5	6.6	6.6	6.1	6.5	6.1	5.5
200000	6.8	6.7	6.5	5.9	6.9	6.4	6.7	7.4	6.5	6.6	6.4	5.9	5.9	5.1
210000	6.7	6.8	6.5	6.0	6.9	6.6	6.7	7.2	6.5	6.5	5.9	5.8	5.7	6.6
220000	6.8	6.8	6.7	6.4	7.0	6.8	6.7	7.3	6.3	6.6	6.1	5.8	5.8	6.6
230000	6.7	6.7	6.7	6.7	7.1	6.8	6.7	7.3	6.5	6.5	6.3	5.9	6.1	6.8
Daily Max	7.5	7.2	6.9	6.8	7.1	7.1	6.9	7.5	7.4	7.0	7.1	6.7	6.6	6.8
Daily Min	6.7	6.6	6.2	5.5	6.6	6.4	6.5	6.6	6.3	6.3	5.9	5.8	5.7	5.1
Average	7.1	6.8	6.5	6.1	6.8	6.7	6.7	7.0	6.9	6.6	6.5	6.4	6.1	6.0

High Falls Tailrace Dissolved Oxygen Summary - July 2012

Time HHMMSS	07/01/12	07/02/12	07/03/12	07/04/12	07/05/12	07/06/12	07/07/12	07/08/12	07/09/12	07/10/12	07/11/12	07/12/12	07/13/12	07/14/12	07/15/12	07/16/12
0	6.8	6.8	7.0	6.6	6.4	5.8	6.1	5.9	5.9	5.6	5.9	6.8	7.9	7.9	7.8	7.7
10000	6.7	6.9	6.3	6.4	6.3	5.8	6.2	5.8	6.0	5.7	5.7	6.8	7.9	7.9	7.7	7.7
20000	6.9	6.7	7.0	6.4	6.1	5.7	6.3	5.8	5.8	5.8	5.7	6.7	7.9	7.9	7.8	7.7
30000	6.9	6.9	6.6	6.5	5.9	5.7	6.6	6.1	5.7	5.9	6.1	6.9	7.9	7.9	7.8	7.7
40000	6.5	6.9	6.4	6.2	5.6	5.6	6.6	5.5	6.0	5.9	6.5	7.4	8.0	7.9	7.8	7.6
50000	6.7	6.8	6.9	6.3	5.5	5.5	6.3	5.7	6.0	5.8	6.6	7.5	8.0	7.9	7.8	7.6
60000	7.1	7.1	6.9	6.2	5.7	5.6	6.4	5.6	5.8	5.8	6.6	7.5	8.1	7.9	7.8	7.6
70000	6.9	7.3	6.8	6.2	5.6	5.4	6.5	5.7	5.9	6.0	6.9	7.4	8.1	8.0	7.8	7.7
80000	6.8	7.3	6.9	6.2	5.7	5.5	5.9	5.8	5.9	6.0	6.8	7.4	8.1	8.1	7.9	7.8
90000	7.1	7.0	6.9	6.2	6.0	5.7	6.2	6.0	5.9	6.0	7.0	7.3	8.1	8.1	7.9	7.8
100000	7.0	7.2	6.6	6.4	5.9	5.5	6.2	6.1	6.1	6.2	6.9	7.4	8.2	8.1	7.9	7.9
110000	7.1	7.1	6.6	6.2	5.9	5.9	6.3	5.9	6.0	6.0	6.8	7.5	8.1	8.1	8.0	7.8
120000	7.5	6.9	6.5	6.2	5.9	6.1	6.4	6.0	5.8	5.9	7.0	7.5	8.2	8.1	7.9	7.8
130000	7.4		6.8	6.4	6.1	6.2	6.5	6.0	6.0	6.1	6.8	7.5	8.2	8.1	7.9	7.9
140000	7.4	6.9	7.0	6.2	6.2	6.1	6.7	5.9	6.0	6.2	6.5	7.4	8.2	8.2	7.9	7.9
150000	7.1	7.1	6.7	6.2	6.4	6.0	6.5	5.7	6.1	5.8	6.5	8.0	8.2	8.1	7.9	7.9
160000	7.1	7.1	6.7	6.0	6.3	6.1	6.4	5.9	5.5	5.9	6.9	8.0	8.1	8.1	7.9	7.8
170000	6.9	7.1	6.6	6.0	6.0	6.5	6.3	5.6	5.9	5.8	6.8	8.0	8.1	8.1	7.9	7.8
180000	7.0	7.1	6.5	6.2	6.2	6.2	6.1	5.9	5.7	5.8	6.6	8.0	8.0	8.0	7.8	7.8
190000	6.8	6.7	6.4	6.1	5.7	6.2	6.1	5.7	6.0	5.7	6.7	7.8	8.0	7.9	7.7	7.8
200000	6.8	6.4	6.5	6.1	5.8	6.1	6.1	5.8	6.2	5.8	6.6	7.9	8.0	7.9	7.7	7.7
210000	6.8	6.7	6.2	6.2	5.6	6.4	5.8	5.6	6.1	5.7	6.7	7.9	7.9	7.8	7.7	7.6
220000	6.8	7.1	6.5	5.9	5.8	6.0	5.9	5.6	5.6	5.8	6.4	7.9	8.0	7.8	7.7	7.6
230000	6.7	7.9	6.4	6.2	5.9	6.1	6.0	5.7	5.7	5.7	6.8	7.9	7.9	7.8	7.7	7.6
Daily Max	7.5	7.9	7.0	6.6	6.4	6.5	6.7	6.1	6.2	6.2	7.0	8.0	8.2	8.2	8.0	7.9
Daily Min	6.5	6.4	6.2	5.9	5.5	5.4	5.8	5.5	5.5	5.6	5.7	6.7	7.9	7.8	7.7	7.6
Average	6.9	7.0	6.7	6.2	5.9	5.9	6.3	5.8	5.9	5.9	6.6	7.5	8.0	8.0	7.8	7.7

[Redacted]

Missing data due to equipment maintenance.

License Minimum Dissolved Oxygen: 5.0 mg/l

High Falls Tailrace Dissolved Oxygen Summary - July 2012

Time HHMMSS	07/17/12	07/18/12	07/19/12	07/20/12	07/21/12	07/22/12	07/23/12	07/24/12	07/25/12	07/26/12	07/27/12	07/28/12	07/29/12	07/30/12	07/31/12
0	7.5	7.5	7.5	7.2	7.9	7.7	7.8	7.7	7.8	7.6	7.6	6.3	6.1	5.8	6.3
10000	7.4	7.5	7.5	7.3	7.9	7.7	7.7	7.8	7.6	7.6	6.2	6.1	6.0	6.4	
20000	7.5	7.5	7.5	7.3	7.8	7.7	7.7	7.8	7.6	7.6	6.4	6.0	5.9	6.6	
30000	7.5	7.5	7.5	7.4	7.7	7.8	7.7	7.8	7.6	7.6	6.4	5.8	6.1	6.5	
40000	7.6	7.5	7.5	7.4	7.9	7.7	7.8	7.8	7.7	7.6	7.4	6.0	6.2	5.7	7.2
50000	7.6	7.5	7.6	7.2	7.9	7.8	7.8	7.8	7.7	7.6	7.4	6.4	6.0	5.9	7.1
60000	7.6	7.5	7.5	7.1	7.9	7.8	7.8	7.8	7.7	7.6	7.4	6.3	6.0	6.0	7.0
70000	7.6	7.6	7.6	7.4	7.9	7.8	7.8	7.9	7.7	7.6	7.8	6.3	6.2	6.2	7.3
80000	7.6	7.6	7.7		7.9	7.9	7.8	7.9	7.8	7.7	7.6	6.5	6.2	6.1	7.3
90000	7.6	7.7	7.7	7.8	8.0	7.9	7.9	8.0	7.9	7.8	7.0	6.4	6.1	6.0	7.6
100000	7.6	7.7	7.7	7.9	8.1	8.0	7.9	8.0	7.8	7.8	7.2	6.1	6.4	6.1	7.5
110000	7.6	7.8	7.8		8.1	8.0	7.9	8.0	7.9	7.8	7.0	6.6	6.3	5.7	7.5
120000	7.6	7.7	7.8		8.0	8.0	7.9	8.0	8.0	7.8	7.0	6.5	6.5	5.8	7.4
130000	7.6	7.6	7.7		8.0	8.0	7.9	8.0	7.9	7.6	7.2	6.7	6.3	5.9	7.4
140000	7.4	7.7	7.8		8.0	8.0		8.0	7.9	7.8	7.0	6.6	6.5	5.5	7.5
150000	7.4	7.7	7.8	8.0	8.0	7.9		8.0	7.9	7.7	7.1	6.7	6.3	5.8	7.5
160000	7.3	7.7	7.8	8.0	7.9	7.9		7.9	7.8	7.6	7.0	6.8	6.0	5.8	7.5
170000	7.5	7.7	7.8	7.9	7.9	7.9		7.9	7.8	7.6	7.0	6.7	5.6	5.8	7.4
180000	7.4	7.7	7.8	7.9	7.8	7.9	7.8	7.9	7.8	7.7	7.1	6.6	5.8	5.2	7.5
190000	7.3	7.6	7.7	7.8	7.8	7.8	7.7	7.9	7.6	7.6	6.8	6.4	6.0	5.6	7.2
200000	7.2	7.5	7.6	7.8	7.7	7.7	7.6	7.8	7.6	7.5	6.7	6.4	6.1	6.1	7.2
210000	7.3	7.5	7.6	7.8	7.7	7.7	7.7	7.8	7.5	7.6	6.7	6.3	5.7	6.1	7.4
220000	7.3	7.5	6.4	7.9	7.7	7.8	7.7	7.8	7.6	7.6	6.6	6.1	5.7	6.3	7.4
230000	7.4	7.5	7.2	7.8	7.7	7.8	7.7	7.8	7.6	7.6	6.4	6.1	5.7	6.2	7.4
Daily Max	7.6	7.8	7.8	8.0	8.1	8.0	7.9	8.0	8.0	7.8	7.8	6.8	6.5	6.3	7.6
Daily Min	7.2	7.5	6.4	7.1	7.7	7.7	7.6	7.7	7.5	7.5	6.4	6.0	5.6	5.2	6.3
Average	7.5	7.6	7.6	7.6	7.9	7.8	7.8	7.9	7.8	7.6	7.2	6.4	6.1	5.9	7.2

 Missing data due to equipment maintenance.
 Missing data due to monitoring equipment malfunction

High Falls Tailrace Dissolved Oxygen Summary - August 2012

Time HHMMSS	08/01/12	08/02/12	08/03/12	08/04/12	08/05/12	08/06/12	08/07/12	08/08/12	08/09/12	08/10/12	08/11/12	08/12/12	08/13/12	08/14/12	08/15/12	08/16/12
0	7.4	7.3	7.4	7.7	7.7	7.8	7.9	7.9	8.0	8.2	8.5	8.2	8.2	8.2	8.1	8.1
10000	7.5	7.5	7.5	7.7	7.7	7.8	7.9	7.9	8.0	8.2	8.6	8.3	8.2	8.2	8.1	8.1
20000	7.3	7.3	7.3	7.7	7.8	7.8	7.9	7.9	8.0	8.2	8.6	8.3	8.2	8.2	8.1	8.1
30000	7.2	7.2	7.4	7.7	7.8	7.8	7.9	7.7	8.1	8.3	8.5	8.2	8.3	8.2	8.1	8.1
40000	7.3	7.4	7.6	7.7	7.7	7.9	7.9	7.6	8.0	8.3	8.6	8.3	8.3	8.2	8.1	8.1
50000	7.4	7.2	7.6	7.7	7.7	8.0	7.9	7.6	8.1	8.3	8.6	8.3	8.3	8.2	8.1	8.1
60000	7.1	7.5	7.7	7.7	7.7	8.0	7.9	7.7	8.1	8.3	8.6	8.3	8.3	8.2	8.2	8.1
70000	7.3	7.3	7.7	7.7	7.7	8.0	8.0	8.0	8.1	8.4	8.7	8.3	8.3	8.2	8.2	8.1
80000	7.4	7.3	7.7	7.8	7.8	8.0	8.1	8.0	8.1	8.5	8.7	8.4	8.4	8.3	8.2	8.1
90000	7.5	7.6	7.8	7.8	7.8	8.0	8.0	8.1	8.2	8.5	8.5	8.4	8.3	8.3	8.2	8.1
100000	7.5	7.4	7.8	7.9	8.0	8.1	8.0	8.2	8.2	8.6	8.5	8.4	8.4	8.3	8.2	8.2
110000	7.6	7.4	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.6	8.5	8.5	8.4	8.3	8.3	8.1
120000	7.5	7.6	7.8	7.9	8.0	8.1	8.1	8.1	8.6	8.5	8.5	8.4	8.3	8.3	8.2	8.2
130000	7.6	7.5	7.8	7.9	8.0	8.0	8.0	8.1	8.2	8.6	8.4	8.5	8.4	8.3	8.3	8.2
140000	7.2	7.5	7.8	7.9	7.9	8.0	8.0	8.1	8.1	8.6	8.4	8.4	8.4	8.3	8.3	8.2
150000	7.3	7.4	7.8	7.9	8.0	8.0	7.9	8.1	8.2	8.6	8.4	8.4	8.4	8.3	8.3	8.2
160000	7.4	7.4	7.8	7.9	8.0	8.0	8.0	8.1	8.2	8.6	8.4	8.3	8.4	8.2	8.3	8.2
170000	7.1	7.3	7.8	7.8	8.0	8.1	7.9	8.0	8.2	8.6	8.3	8.3	8.2	8.2	8.3	8.2
180000	7.3	7.4	7.8	7.8	7.9	8.0	7.9	8.0	8.3	8.6	8.2	8.3	8.2	8.1	8.2	8.1
190000	7.2	7.4	7.7	7.8	7.9	7.9	7.8	8.0	8.2	8.5	8.2	8.2	8.2	8.1	8.2	8.1
200000	7.3	7.3	7.7	7.8	7.9	7.9	7.8	8.0	8.2	8.5	8.2	8.2	8.2	8.0	8.1	8.0
210000	7.0	7.5	7.7	7.7	7.9	7.8	7.8	8.0	8.2	8.4	8.2	8.2	8.2	8.1	8.1	8.1
220000	7.3	7.2	7.7	7.7	7.9	7.9	7.8	8.0	8.2	8.5	8.2	8.2	8.2	8.1	8.1	8.1
230000	7.4	7.4	7.7	7.7	7.9	7.9	7.9	8.0	8.2	8.5	8.2	8.2	8.2	8.1	8.1	8.1
Daily Max	7.6	7.6	7.8	7.9	8.0	8.1	8.1	8.2	8.3	8.6	8.7	8.5	8.4	8.3	8.3	8.2
Daily Min	7.0	7.2	7.3	7.7	7.7	7.8	7.8	7.6	8.0	8.2	8.2	8.2	8.2	8.0	8.1	8.0
Average	7.3	7.4	7.7	7.8	7.9	8.0	7.9	8.0	8.1	8.5	8.4	8.3	8.3	8.2	8.2	8.1

License Minimum Dissolved Oxygen: 5.0 mg/l

 Missing data due to equipment maintenance.

High Falls Tailrace Dissolved Oxygen Summary - August 2012

Time HHMMSS	08/17/12	08/18/12	08/19/12	08/20/12	08/21/12	08/22/12	08/23/12	08/24/12	08/25/12	08/26/12	08/27/12	08/28/12	08/29/12	08/30/12	08/31/12
0	8.1	8.3	8.3	8.2	8.4	8.4	8.4	8.2	8.2	8.2	8.1	8.1	8.2	8.1	7.9
10000	8.1	8.4	8.2	8.3	8.4	8.4	8.4	8.2	8.2	8.1	8.1	8.1	8.2	8.1	7.8
20000	8.1	8.4	8.3	8.3	8.4	8.4	8.4	8.2	8.1	8.2	8.1	8.1	8.2	8.1	7.8
30000	8.1	8.4	8.3	8.3	8.4	8.4	8.4	8.2	8.2	8.1	8.1	8.1	8.2	8.1	7.8
40000	8.2	8.4	8.2	8.3	8.5	8.4	8.4	8.2	8.2	8.0	8.1	8.2	8.2	8.1	7.8
50000	8.2	8.4	8.3	8.3	8.5	8.4	8.4	8.2	8.1	8.1	8.1	8.2	8.2	8.0	7.7
60000	8.2	8.4	8.3	8.3	8.4	8.4	8.4	8.3	8.1	8.0	8.1	8.2	8.2	8.1	7.7
70000	8.2	8.4	8.4	8.3	8.5	8.5	8.4	8.1	8.2	8.1	8.1	8.2	8.3	8.1	7.7
80000	8.3	8.4	8.3	8.0	8.5	8.5	8.4	8.3	8.3	8.1	8.2	8.3	8.3	8.1	7.8
90000	8.4	8.4	8.4	8.5	8.4	8.4	8.5	8.4	8.5	8.1	8.1	8.3	8.3	8.2	7.9
100000	8.5	8.4	8.4	8.3	8.6	8.6	8.4	8.4	8.5	8.2	8.3	8.3	8.3	8.2	8.0
110000	8.5	8.4	8.4	8.4	8.6	8.7	8.4	8.5	8.6	8.1	8.4	8.3	8.4	8.2	7.9
120000	8.6	8.4	8.4	8.5	8.7	8.7	8.3	8.5	8.6	8.3	8.5	8.3	8.4	8.2	7.9
130000	8.5	8.4	8.3	8.3	8.7	8.7	8.5	8.6	8.6	8.2	8.4	8.4	8.4	8.2	7.9
140000	8.5	8.5	8.3	8.5	8.7	8.7	8.3	8.7	8.6	8.3	8.2	8.3	8.4	8.3	7.9
150000	8.4	8.4	8.2	8.5	8.6	8.6	8.5	8.6	8.6	8.2	8.2	8.2	8.4	8.3	7.9
160000	8.4	8.4	8.3	8.4	8.5	8.6	8.5	8.7	8.6	8.2	8.2	8.3	8.3	8.2	7.9
170000	8.4	8.3	8.2	8.4	8.3	8.4	8.4	8.6	8.5	8.2	8.2	8.3	8.3	8.1	7.8
180000	8.4	8.3	8.1	8.3	8.3	8.3	8.3	8.5	8.5	8.2	8.1	8.3	8.3	8.1	7.7
190000	8.3	8.3	8.2	8.3	8.2	8.4	8.2	8.4	8.2	8.1	8.2	8.2	8.2	7.9	7.6
200000	8.3	8.2	8.2	8.3	8.3	8.4	8.3	8.4	8.4	8.1	8.0	8.2	8.2	7.9	7.6
210000	8.3	8.2	8.2	8.3	8.3	8.4	8.2	8.4	8.3	8.1	8.0	8.2	8.1	8.0	7.6
220000	8.3	8.2	8.2	8.3	8.3	8.4	8.2	8.3	8.2	8.1	8.1	8.2	8.1	7.9	7.4
230000	8.4	8.3	8.2	8.4	8.3	8.4	8.2	8.3	8.3	8.1	8.0	8.2	8.1	7.9	7.5
Daily Max	8.6	8.5	8.4	8.5	8.7	8.7	8.5	8.7	8.6	8.3	8.5	8.4	8.4	8.3	8.0
Daily Min	8.1	8.2	8.1	8.0	8.2	8.3	8.2	8.1	8.1	8.0	8.0	8.1	8.1	7.9	7.4
Average	8.3	8.3	8.3	8.3	8.5	8.5	8.4	8.4	8.4	8.1	8.2	8.2	8.3	8.1	7.8

[REDACTED]

[REDACTED] Missing data due to equipment maintenance.

High Falls Tailrace Dissolved Oxygen Summary - September 2012

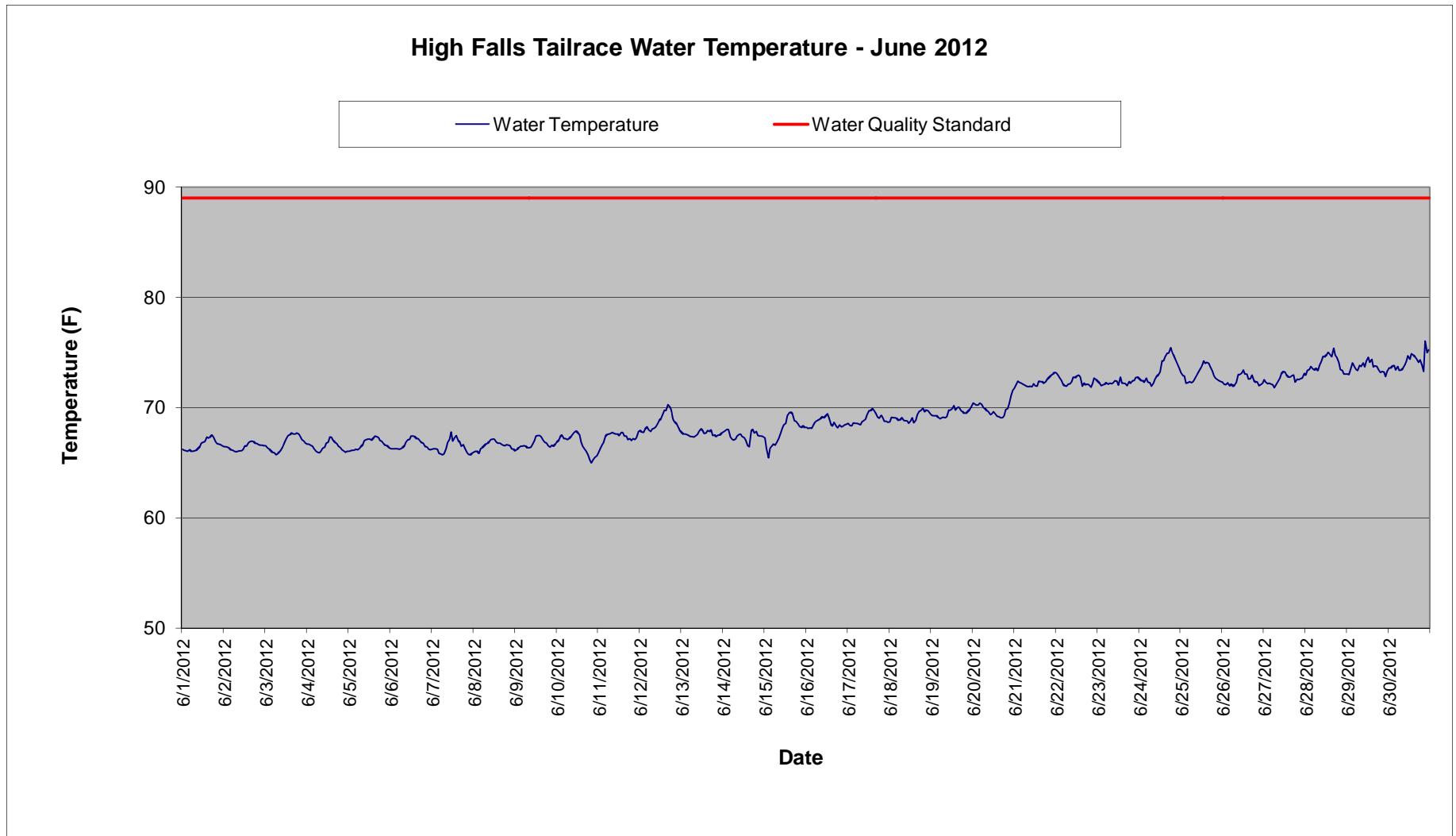
Time HHMMSS	09/01/12	09/02/12	09/03/12	09/04/12	09/05/12	09/06/12	09/07/12	09/08/12	09/09/12	09/10/12	09/11/12	09/12/12	09/13/12	09/14/12	09/15/12	09/16/12
0	7.4	7.8	7.6	6.6	6.2	6.7	6.3	7.7	8.2	8.5	8.7	8.7	8.8	8.9	8.7	8.7
10000	7.4	7.9	7.6	6.3	6.0	6.7	6.4	7.8	8.2	8.6	8.7	8.7	8.8	8.9	8.8	8.7
20000	7.4	7.8	7.6	6.5	6.2	6.6	6.7	7.9	8.1	8.6	8.6	8.7	8.8	8.7	8.8	8.7
30000	7.5	7.9	7.5	6.2	6.3	6.6	6.8	7.9	8.2	8.6	8.7	8.7	8.8	9.0	8.7	8.7
40000	7.6	7.8	6.2	6.2	6.5	6.3	6.4	8.1	8.3	8.6	8.7	8.6	8.7	8.9	8.8	8.8
50000	7.7	7.8	6.3	6.3	6.3	6.3	6.4	8.0	8.2	8.6	8.7	8.7	8.7	9.0	8.8	8.7
60000	7.7	7.8	6.8	6.1	6.6	6.5	7.5	8.0	8.5	8.6	8.7	8.7	8.7	9.0	8.8	8.8
70000	7.9	7.8	6.7	6.2	6.3	6.5	8.0	8.2	8.4	8.7	8.8	8.7	8.6	9.1	8.8	8.7
80000	7.8	7.9	6.8	6.4	6.7	6.4	7.9	8.3	8.5	8.7	8.8	8.7	8.8	9.2	8.9	8.8
90000	7.9	8.0	7.1	6.2	6.6	6.6	8.0	8.2	8.4	8.7	8.8	8.7	8.8	9.1	8.9	8.8
100000	8.0	8.0	7.4	6.6	6.4	6.5	7.9	8.2	8.6	8.7	8.9	8.8	8.8	9.1	8.9	8.9
110000	8.0	8.0	7.6	6.5	6.7	6.7	7.9	8.1	8.5	8.8	8.8	8.9	9.0	9.2	8.9	8.9
120000	8.1	8.0	7.5	6.2	6.8	6.9	7.9	8.1	8.6	8.8	8.8	8.9	8.8	9.1	8.9	8.9
130000	8.1	8.0	7.6	6.4	6.7	6.7	8.0	8.3	8.6	8.8	8.9	8.9	8.9	9.2	8.9	8.9
140000	8.1	8.0	7.6	6.4	6.8	6.5	8.0	8.3	8.7	8.8	8.9	8.9	8.9	8.9	8.8	8.8
150000	8.1	8.0	7.3	6.2	6.9	6.8	7.7	8.2	8.7	8.8	8.9	8.9	8.9	8.8	8.8	8.9
160000	8.0	7.9	7.5	6.3	7.2	6.9	7.9	8.1	8.6	8.8	8.8	8.8	9.0	8.7	8.8	8.8
170000	8.0	7.9	7.3	6.1	6.9	6.9	8.2	8.1	8.6	8.8	8.8	8.8	8.9	8.7	8.8	8.8
180000	8.0	7.7	7.3	6.3	7.1	6.7	8.1	8.2	8.5	8.7	8.8	8.8	8.8	8.6	8.7	8.7
190000	7.9	7.8	6.4	6.1	6.9	6.4	7.9	7.9	8.5	8.7	8.7	8.7	8.8	8.7	8.7	8.7
200000	7.9	7.8	5.8	6.3	7.0	6.5	7.8	8.0	8.5	8.7	8.7	8.7	9.0	8.6	8.7	8.6
210000	7.9	7.7	5.8	6.1	7.0	6.4	8.0	7.9	8.5	8.7	8.7	8.8	9.1	8.7	8.7	8.7
220000	7.8	7.6	6.6	6.1	7.1	6.4	8.0	8.0	8.5	8.6	8.7	8.8	8.8	8.7	8.7	8.6
230000	7.9	7.7	6.6	5.8	6.8	6.4	7.9	7.9	8.5	8.7	8.7	8.8	9.0	8.7	8.7	8.7
Daily Max	8.1	8.0	7.6	6.6	7.2	6.9	8.2	8.3	8.7	8.8	8.9	8.9	9.1	9.2	8.9	8.9
Daily Min	7.4	7.6	5.8	5.8	6.0	6.3	6.3	7.7	8.1	8.5	8.6	8.6	8.6	8.6	8.7	8.6
Average	7.8	7.9	7.0	6.3	6.7	6.6	7.6	8.1	8.4	8.7	8.8	8.8	8.8	8.9	8.8	8.8

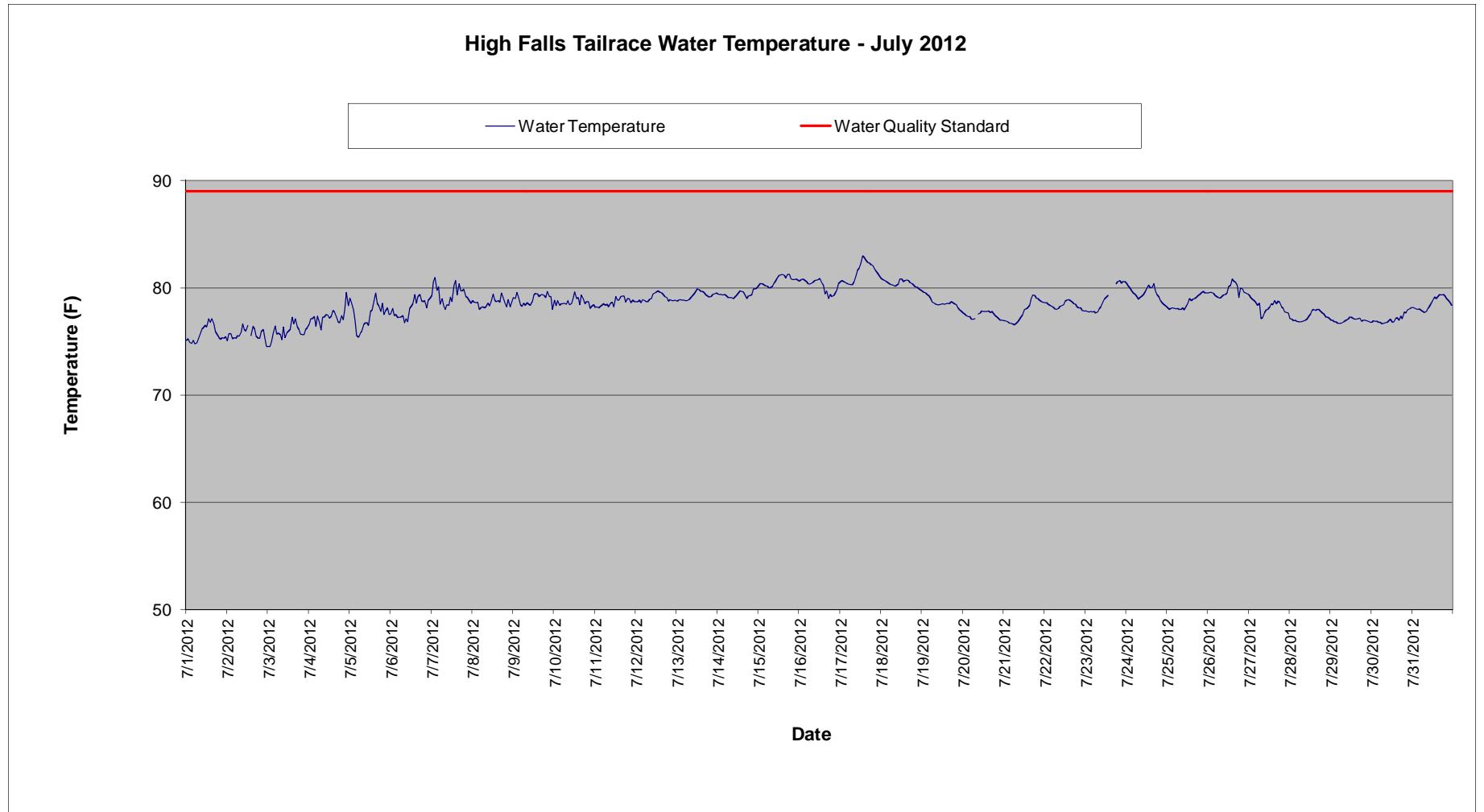
License Minimum Dissolved Oxygen: 5.0 mg/l

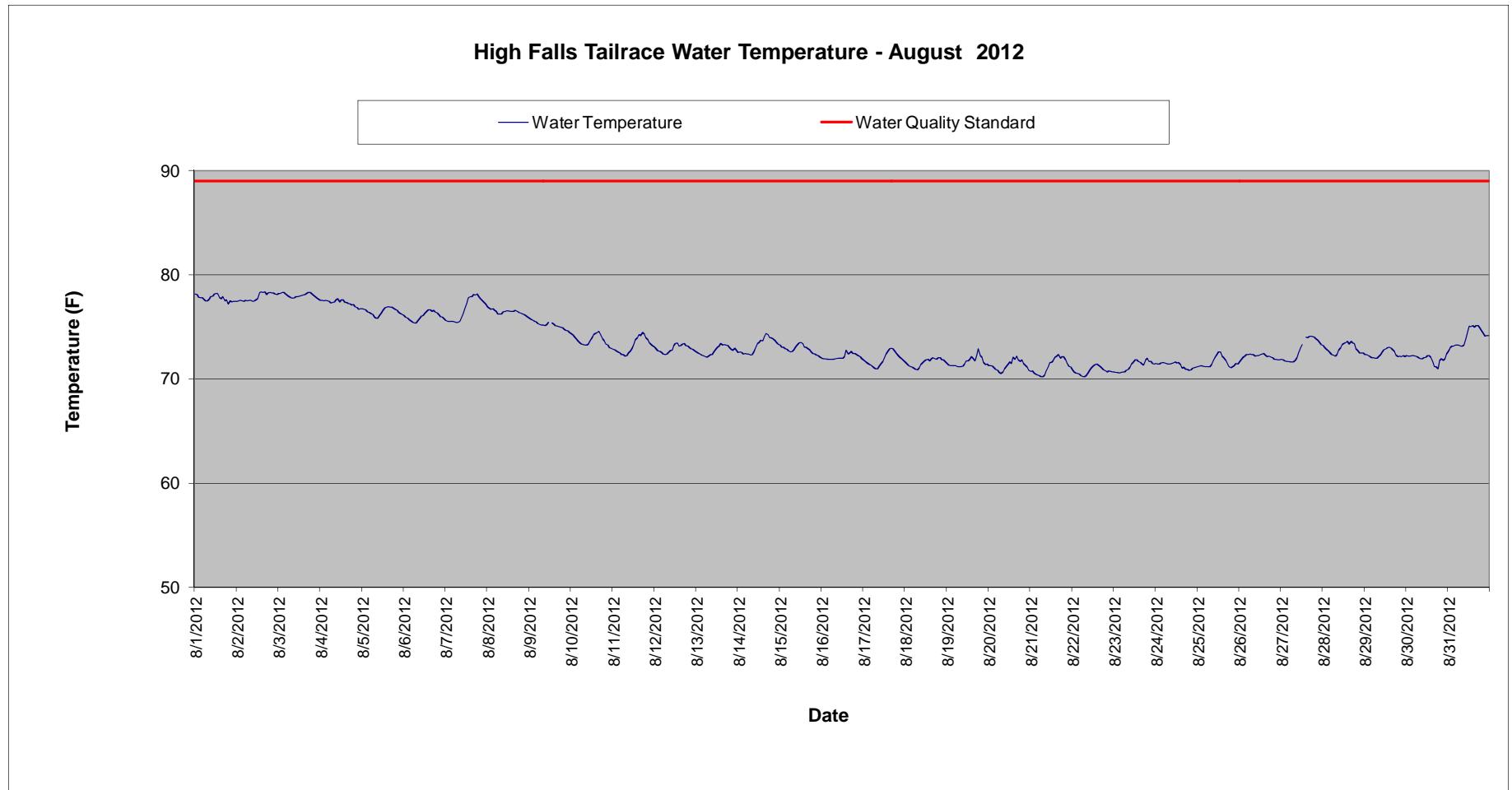
Missing data due to equipment maintenance.

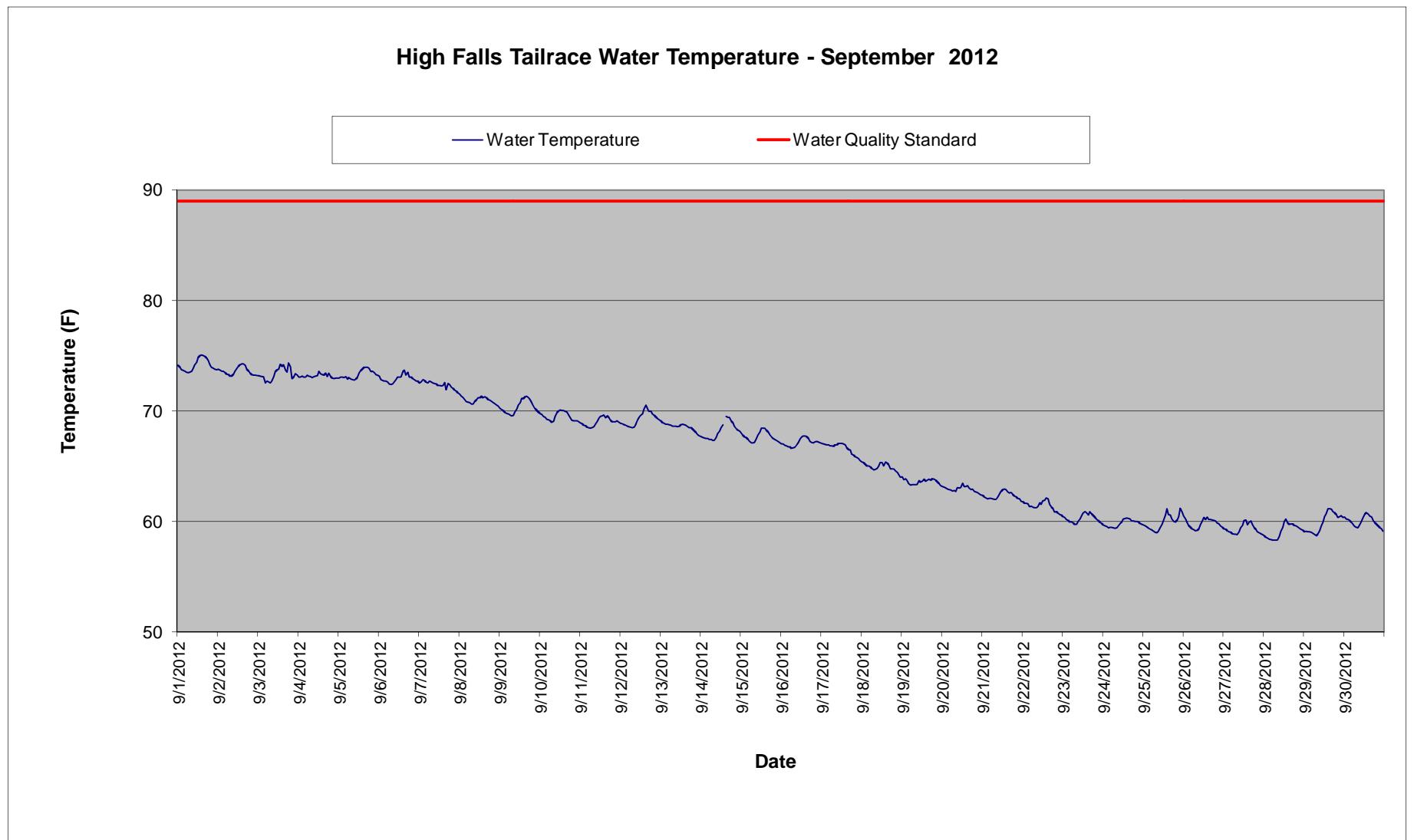
High Falls Tailrace Dissolved Oxygen Summary - September 2012

Time HHMMSS	09/17/12	09/18/12	09/19/12	09/20/12	09/21/12	09/22/12	09/23/12	09/24/12	09/25/12	09/26/12	09/27/12	09/28/12	09/29/12	09/30/12
0	8.6	8.8	8.4	8.9	8.9	8.8	9.2	9.3	9.3	9.2	9.4	9.5	9.4	9.2
10000	8.7	8.8	8.4	8.8	9.0	8.9	9.1	9.3	9.3	9.3	9.5	9.5	9.3	9.3
20000	8.7	8.8	8.4	8.9	9.0	8.8	9.3	9.3	9.3	9.3	9.5	9.5	9.3	9.3
30000	8.7	8.8	8.4	8.9	9.0	8.8	9.3	9.3	9.4	9.3	9.5	9.5	9.4	9.3
40000	8.6	8.3	8.8	8.8	9.0	9.0	9.3	9.3	9.3	9.4	9.5	9.5	9.4	9.2
50000	8.7	8.3	8.9	8.8	8.8	9.0	9.3	9.4	9.4	9.3	9.5	9.5	9.5	9.2
60000	8.6	8.3	8.7	8.9	8.9	9.0	9.4	9.4	9.4	9.4	9.5	9.4	9.4	9.2
70000	8.7	8.3	8.9	8.8	9.0	9.0	9.4	9.3	9.4	9.4	9.5	9.5	9.5	9.3
80000	8.7	8.3	8.9	8.9	8.9	9.0	9.4	9.4	9.4	9.5	9.5	9.5	9.5	9.3
90000	8.7	8.4	9.0	8.8	8.9	9.0	9.4	9.3	9.4	9.5	9.6	9.4	9.5	9.3
100000	8.7	8.5	8.9	8.9	8.8	9.2	9.5	9.4	9.5	9.5	9.6	9.5	9.5	9.4
110000	8.6	8.6	8.9	8.9	8.9	9.1	9.4	9.4	9.5	9.6	9.6	9.6	9.5	9.4
120000	8.8	8.5	8.9	9.0	9.0	9.2	9.5	9.4	9.5	9.6	9.6	9.5	9.5	9.4
130000	8.7	8.4	9.0	8.9	9.0	9.3	9.4	9.4	9.4	9.5	9.6	9.4	9.5	9.4
140000	8.7	8.5	9.0	8.9	9.0	9.2	9.5	9.4	9.4	9.5	9.6	9.4	9.4	9.3
150000	8.7	8.5	8.8	8.9	8.8	9.4	9.4	9.5	9.3	9.5	9.6	9.5	9.4	9.4
160000	8.7	8.5	8.9	8.9	8.9	9.2	9.5	9.4	9.4	9.4	9.5	9.5	9.3	9.3
170000	8.7	8.5	8.8	8.9	8.9	9.2	9.4	9.4	9.3	9.4	9.5	9.4	9.3	9.3
180000	8.8	8.4	8.8	8.9	8.8	9.2	9.3	9.3	9.3	9.4	9.5	9.3	9.2	9.2
190000	8.8	8.4	8.9	8.9	8.8	9.2	9.3	9.3	9.3	9.4	9.4	9.3	9.2	9.3
200000	8.7	8.4	8.6	8.8	8.8	9.2	9.3	9.2	9.2	9.4	9.5	9.4	9.2	9.2
210000	8.8	8.5	8.7	8.9	8.9	9.2	9.3	9.3	9.2	9.4	9.5	9.3	9.2	9.2
220000	8.8	8.4	8.9	8.9	8.7	9.2	9.3	9.3	9.1	9.4	9.5	9.4	9.2	9.3
230000	8.8	8.5	8.9	9.0	8.8	9.2	9.3	9.3	9.2	9.4	9.5	9.4	9.2	9.3
Daily Max	8.8	8.8	9.0	9.0	9.0	9.4	9.5	9.5	9.5	9.6	9.6	9.6	9.5	9.4
Daily Min	8.6	8.3	8.4	8.8	8.7	8.8	9.1	9.2	9.1	9.2	9.4	9.3	9.2	9.2
Average	8.7	8.5	8.8	8.9	8.9	9.1	9.3	9.3	9.3	9.4	9.5	9.4	9.4	9.3









High Falls Tailrace Temperature Summary - June 2012

Time HHMMSS	06/01/12	06/02/12	06/03/12	06/04/12	06/05/12	06/06/12	06/07/12	06/08/12	06/09/12	06/10/12	06/11/12	06/12/12	06/13/12	06/14/12	06/15/12	06/16/12
0	66.2	66.5	66.5	66.7	66.0	66.3	66.2	66.0	66.1	66.9	65.9	67.9	67.7	67.8	67.2	68.2
10000	66.1	66.5	66.4	66.7	66.1	66.3	66.3	66.0	66.2	67.1	66.3	67.8	67.6	67.9	66.3	68.1
20000	66.1	66.4	66.2	66.6	66.1	66.3	66.3	66.0	66.4	67.4	66.6	67.8	67.6	68.0	65.5	68.2
30000	66.0	66.3	66.1	66.5	66.1	66.3	66.2	65.9	66.5	67.5	66.8	68.1	67.6	68.0	66.3	68.1
40000	66.2	66.2	65.9	66.3	66.2	66.3	65.9	66.3	66.5	67.2	67.4	68.3	67.5	67.3	66.5	68.4
50000	66.0	66.1	65.9	66.0	66.2	66.2	65.8	66.4	66.5	67.2	67.6	68.0	67.4	67.1	66.7	68.7
60000	66.0	66.0	65.7	65.9	66.3	66.3	65.7	66.5	66.5	67.1	67.6	67.9	67.4	67.0	66.6	68.8
70000	66.1	66.0	65.8	65.9	66.4	66.4	65.8	66.7	66.4	67.2	67.6	68.1	67.3	67.1	66.9	68.9
80000	66.1	66.1	66.0	66.1	66.7	66.5	66.3	66.8	66.4	67.4	67.8	68.1	67.4	67.4	67.2	69.0
90000	66.3	66.1	66.2	66.3	67.0	66.8	66.8	66.9	66.4	67.6	67.7	68.2	67.6	67.6	67.7	69.2
100000	66.5	66.1	66.5	66.4	67.1	67.1	67.2	67.1	66.7	67.8	67.6	68.5	67.8	67.6	68.1	69.1
110000	66.8	66.2	66.9	66.8	67.2	67.1	67.8	67.1	67.0	67.9	67.6	68.9	68.1	67.4	68.4	69.2
120000	66.9	66.6	67.2	66.8	67.1	67.4	67.0	67.2	67.4	67.8	67.5	69.0	67.9	67.3	68.6	69.4
130000	66.9	66.5	67.5	67.4	67.1	67.4	67.3	66.8	67.5	67.5	67.7	69.3	67.7	67.1	69.2	69.1
140000	67.3	66.8	67.6	67.3	67.2	67.4	67.5	66.8	67.5	66.9	67.7	69.8	67.7	66.5	69.5	68.5
150000	67.2	66.9	67.7	67.0	67.4	67.2	67.0	66.8	67.4	66.5	67.4	69.7	67.9	66.5	69.6	68.4
160000	67.3	67.0	67.6	66.9	67.4	67.2	66.8	66.7	67.0	66.2	67.4	70.3	67.9	67.9	69.4	68.6
170000	67.5	66.9	67.6	66.7	67.3	66.9	66.5	66.6	66.9	66.0	67.1	70.1	68.0	68.0	68.8	68.4
180000	67.4	66.8	67.7	66.5	67.0	66.8	66.7	66.5	66.8	65.7	67.2	69.7	67.5	67.7	68.8	68.1
190000	66.9	66.7	67.6	66.4	66.9	66.8	66.3	66.6	66.5	65.2	67.0	69.0	67.5	67.9	68.5	68.4
200000	66.7	66.7	67.4	66.2	66.7	66.4	65.9	66.6	66.4	65.0	67.2	68.7	67.4	67.5	68.3	68.3
210000	66.7	66.6	67.1	66.1	66.6	66.5	65.8	66.5	66.6	65.3	67.1	68.5	67.5	67.4	68.2	68.3
220000	66.6	66.6	66.9	65.9	66.5	66.2	65.7	66.3	66.5	65.5	67.3	68.2	67.5	67.4	68.3	68.4
230000	66.5	66.5	66.8	66.1	66.4	66.2	65.8	66.2	66.7	65.6	67.9	67.9	67.7	67.4	68.2	68.5
Daily Max	67.5	67.0	67.7	67.4	67.4	67.4	67.8	67.2	67.5	67.9	67.9	70.3	68.1	68.0	69.6	69.4
Daily Min	66.0	66.0	65.7	65.9	66.0	66.2	65.7	65.9	66.1	65.0	65.9	67.8	67.3	66.5	65.5	68.1
Average	66.6	66.5	66.8	66.5	66.7	66.7	66.4	66.4	66.6	66.7	66.7	68.6	67.6	67.5	67.9	68.6

Monthly average Temp:
License Maximum Temperature:

69.8
89 F

High Falls Tailrace Temperature Summary - June 2012

Time HHMMSS	06/17/12	06/18/12	06/19/12	06/20/12	06/21/12	06/22/12	06/23/12	06/24/12	06/25/12	06/26/12	06/27/12	06/28/12	06/29/12	06/30/12
0	68.6	68.7	69.3	70.4	71.7	73.2	72.4	72.6	73.2	72.3	72.5	72.9	73.1	73.6
10000	68.4	69.1	69.3	70.3	72.1	73.0	72.2	72.4	72.9	72.1	72.3	73.4	73.0	73.6
20000	68.3	69.1	69.3	70.2	72.4	72.7	72.0	72.5	72.9	72.1	72.2	73.5	73.6	73.8
30000	68.6	69.1	69.2	70.2	72.2	72.5	72.1	72.3	72.2	72.2	72.2	73.7	74.1	73.9
40000	68.6	69.0	69.1	70.4	72.2	72.1	72.1	72.7	72.2	72.0	72.1	73.5	73.7	73.4
50000	68.6	68.8	69.0	70.3	72.1	72.0	72.3	72.3	72.4	72.1	72.1	73.4	73.5	73.7
60000	68.5	68.9	69.1	70.0	72.0	72.0	72.1	72.3	72.3	71.9	71.8	73.5	73.4	73.4
70000	68.4	69.1	69.1	69.9	71.9	72.1	72.2	71.9	72.3	72.1	72.1	73.3	73.9	73.4
80000	68.7	68.8	69.1	69.7	71.9	72.2	72.2	72.2	72.6	72.3	72.4	73.8	73.7	73.5
90000	68.8	68.8	69.2	69.6	71.9	72.4	72.2	72.6	72.9	73.0	72.7	74.2	74.1	73.9
100000	68.9	68.8	69.8	69.4	71.9	72.8	72.4	72.8	73.2	73.0	73.1	74.7	73.7	74.2
110000	69.4	68.6	69.8	69.5	72.2	72.7	72.4	73.0	73.5	73.1	73.3	74.6	74.2	74.7
120000	69.7	68.8	69.9	69.7	72.0	72.9	72.1	73.2	73.7	73.4	73.2	74.8	74.6	74.4
130000	69.7	69.1	70.2	69.4	71.9	72.9	72.8	74.2	74.2	73.1	72.9	75.0	74.1	74.9
140000	69.9	68.6	69.8	69.2	72.4	72.8	72.2	74.3	74.0	73.0	72.8	74.8	74.4	74.7
150000	69.7	68.8	70.0	69.2	72.4	71.9	72.2	74.6	74.1	72.6	72.8	74.6	73.7	74.6
160000	69.5	69.4	70.1	69.1	72.3	72.2	72.2	74.9	74.0	72.6	72.9	75.4	73.8	74.4
170000	69.1	69.7	69.7	69.1	72.2	72.1	72.0	74.9	73.7	73.0	72.9	74.8	73.7	74.1
180000	69.0	69.7	69.6	69.2	72.4	72.1	72.4	75.4	73.3	72.5	72.3	74.6	73.5	74.3
190000	69.3	69.9	69.5	69.8	72.6	72.1	72.2	75.0	72.9	72.3	72.6	74.1	73.2	73.8
200000	69.1	69.6	69.5	69.9	72.8	71.8	72.4	74.7	72.7	72.4	72.6	73.5	73.3	73.3
210000	68.8	69.8	69.6	70.4	72.9	72.2	72.4	74.3	72.5	72.0	72.6	73.4	73.2	76.0
220000	68.7	69.7	69.8	71.2	73.1	72.7	72.7	74.0	72.4	72.1	72.7	73.0	72.8	75.0
230000	68.7	69.5	70.1	71.6	73.2	72.5	72.8	73.6	72.4	72.2	73.1	73.0	73.3	75.3
Daily Max	69.9	69.9	70.2	71.6	73.2	73.2	72.8	75.4	74.2	73.4	73.3	75.4	74.6	76.0
Daily Min	68.3	68.6	69.0	69.1	71.7	71.8	72.0	71.9	72.2	71.9	71.8	72.9	72.8	73.3
Average	69.0	69.1	69.5	69.9	72.3	72.4	72.3	73.5	73.0	72.5	72.6	74.0	73.6	74.2

High Falls Tailrace Temperature Summary - July 2012

Time HHMMSS	07/01/12	07/02/12	07/03/12	07/04/12	07/05/12	07/06/12	07/07/12	07/08/12	07/09/12	07/10/12	07/11/12	07/12/12	07/13/12	07/14/12	07/15/12	07/16/12
0	75.1	75.1	74.5	76.6	79.1	77.6	79.3	78.8	79.1	78.9	78.2	78.7	78.8	79.4	80.2	80.6
10000	75.2	75.7	74.5	77.1	78.6	78.1	80.6	78.7	79.0	78.3	78.2	78.7	78.8	79.4	80.4	80.8
20000	74.9	75.7	75.0	77.1	78.0	77.4	80.9	78.6	79.6	78.8	78.1	78.9	78.9	79.4	80.4	80.8
30000	74.8	75.2	75.7	77.3	76.9	77.5	79.8	78.7	79.2	78.4	78.3	78.6	78.9	79.3	80.3	80.7
40000	75.1	75.3	76.4	76.4	75.6	77.2	80.1	78.0	78.4	78.5	78.4	78.9	78.9	79.4	80.2	80.6
50000	74.8	75.3	75.7	77.4	75.4	77.3	78.5	78.2	78.3	78.5	78.5	78.8	78.8	79.3	80.1	80.4
60000	74.9	75.5	75.8	76.7	75.7	77.3	79.0	78.2	78.5	78.5	78.4	78.7	78.8	79.1	80.0	80.3
70000	75.3	75.5	75.6	76.1	76.0	77.4	78.3	78.1	78.4	78.5	78.5	78.7	78.9	79.1	80.0	80.5
80000	75.6	75.9	75.1	77.3	76.6	76.7	78.0	78.2	78.6	78.8	78.2	78.9	79.1	79.1	80.1	80.5
90000	76.2	76.6	76.3	77.3	76.7	77.1	78.4	78.6	78.5	78.4	78.6	79.0	79.2	79.0	80.4	80.7
100000	76.3	76.1	75.3	77.5	76.7	76.8	78.4	78.3	78.4	78.5	78.7	79.4	79.4	79.1	80.6	80.7
110000	76.5	76.0	75.8	77.5	76.5	78.1	79.1	78.7	78.7	79.0	78.2	79.5	79.6	79.3	81.0	80.8
120000	76.4	76.5	76.0	77.2	77.8	78.3	78.7	79.4	79.3	79.6	79.2	79.6	79.9	79.5	81.2	80.9
130000	77.1		76.1	77.4	78.0	78.5	80.3	78.8	79.5	79.0	78.8	79.7	79.8	79.7	81.2	80.5
140000	76.8	75.5	77.3	77.9	78.6	79.4	80.7	78.7	79.4	79.1	78.9	79.6	79.7	79.6	81.2	80.2
150000	77.1	76.4	76.7	77.8	79.5	78.6	79.3	78.8	79.2	78.4	79.2	79.5	79.7	79.6	81.1	79.4
160000	76.6	76.2	77.1	77.3	78.6	79.2	80.4	78.7	79.3	79.3	79.2	79.4	79.6	79.3	80.9	79.7
170000	75.9	75.5	76.3	76.9	78.3	79.4	79.7	79.5	79.4	78.9	79.3	79.2	79.4	79.6	81.2	79.0
180000	75.7	75.3	76.1	76.7	77.8	78.8	79.7	79.1	79.3	78.5	78.6	79.1	79.2	79.3	81.3	79.4
190000	75.3	75.3	75.7	77.4	78.5	78.7	79.9	78.5	79.1	78.7	79.0	78.8	79.1	79.3	80.8	79.2
200000	75.2	75.9	75.6	77.0	77.5	78.8	79.2	78.2	79.6	78.7	79.0	78.9	79.2	79.4	80.8	79.3
210000	75.4	76.1	75.6	78.0	77.8	78.2	79.1	78.9	79.2	78.1	78.6	78.8	79.4	79.9	80.8	79.5
220000	75.3	75.3	76.1	79.6	78.1	78.9	78.8	78.2	79.2	78.3	78.9	78.8	79.4	79.9	80.8	79.8
230000	75.4	74.5	76.3	78.3	77.5	79.0	78.6	78.7	78.0	78.4	78.7	78.8	79.5	80.0	80.7	80.4
Daily Max	77.1	76.6	77.3	79.6	79.5	79.4	80.9	79.5	79.6	79.6	79.3	79.7	79.9	80.0	81.3	80.9
Daily Min	74.8	74.5	74.5	76.1	75.4	76.7	78.0	78.0	78.0	78.1	78.1	78.6	78.8	79.0	80.0	79.0
Average	75.7	75.7	75.9	77.3	77.5	78.1	79.4	78.6	79.0	78.7	78.6	79.0	79.2	79.4	80.7	80.2

Monthly Average Temp:

78.5

License Maximum Temperature:

89 F

 Missing data due to equipment maintenance.

High Falls Tailrace Temperature Summary - July 2012

Time HHMMSS	07/17/12	07/18/12	07/19/12	07/20/12	07/21/12	07/22/12	07/23/12	07/24/12	07/25/12	07/26/12	07/27/12	07/28/12	07/29/12	07/30/12	07/31/12	
0	80.6	80.9	79.7	77.7	76.9	78.6	77.8	80.5	78.2	79.5	79.3	77.1	77.0	76.8	78.2	
10000	80.7	80.8	79.6	77.6	76.9	78.6	77.8	80.2	78.0	79.6	79.1	77.1	77.0	76.9	78.1	
20000	80.6	80.7	79.5	77.4	76.8	78.5	77.8	80.0	78.1	79.6	78.9	76.9	76.9	76.9	78.0	
30000	80.5	80.6	79.4	77.3	76.7	78.4	77.8	79.7	78.1	79.5	78.8	77.0	76.8	76.9	78.0	
40000	80.4	80.5	79.2	77.3	76.7	78.3	77.7	79.5	78.1	79.3	78.6	76.9	76.7	76.8	78.0	
50000	80.3	80.3	79.0	77.1	76.7	78.2	77.8	79.4	78.0	79.2	78.4	76.8	76.7	76.8	77.9	
60000	80.3	80.3	78.7	77.1	76.6	78.0	77.7	79.2	78.1	79.1	78.6	76.9	76.7	76.6	77.8	
70000	80.3	80.2	78.5	77.1	76.6	78.0	77.8	78.9	78.0	79.0	77.1	76.8	76.8	76.7	77.7	
80000	80.5	80.1	78.5			76.8	78.1	78.0	79.1	78.0	79.2	77.2	76.9	76.9	76.7	77.8
90000	81.1	80.2	78.4	77.6	77.0	78.3	78.2	79.2	78.1	79.3	77.7	77.0	77.0	76.8	78.1	
100000	81.6	80.3	78.4	77.7	77.3	78.3	78.7	79.4	78.0	79.4	77.9	77.1	77.1	76.9	78.3	
110000	81.8	80.8	78.5	77.8	77.5	78.4	78.9	79.6	78.3	79.5	78.0	77.3	77.3	77.1	78.6	
120000	82.2	80.8	78.5	77.8	78.0	78.7	79.1	80.0	78.5	80.1	78.2	77.6	77.3	76.8	78.9	
130000	83.0	80.6	78.5	77.8	78.0	78.9	79.3	80.2	79.0	80.2	78.5	77.9	77.2	76.9	79.1	
140000	82.8	80.7	78.5	77.8	78.2	78.9			80.0	78.8	80.8	78.4	78.0	77.1	79.0	
150000	82.6	80.7	78.5	77.8	78.4	78.8			80.0	79.0	80.6	78.8	77.9	77.1	77.2	79.2
160000	82.3	80.7	78.5	77.7	79.0	78.7			80.4	79.0	80.5	78.5	78.0	77.1	77.0	79.4
170000	82.3	80.5	78.7	77.8	79.3	78.5			79.7	79.1	80.2	78.8	78.0	77.2	77.4	79.3
180000	82.2	80.4	78.6	77.6	79.3	78.5	80.4	79.4	79.3	79.1	78.7	77.8	76.9	77.1	79.4	
190000	82.1	80.2	78.5	77.4	79.1	78.2	80.6	79.1	79.4	79.9	78.2	77.7	77.0	77.8	79.2	
200000	81.8	80.1	78.4	77.3	79.0	78.1	80.7	78.8	79.5	79.9	78.1	77.5	77.0	77.6	79.0	
210000	81.5	80.1	78.2	77.1	78.8	78.1	80.4	78.6	79.6	79.6	77.8	77.3	76.9	78.0	78.8	
220000	81.3	79.9	78.0	77.0	78.7	77.9	80.6	78.4	79.5	79.5	77.7	77.3	76.9	78.0	78.6	
230000	81.1	79.8	77.8	77.0	78.7	77.9	80.6	78.3	79.5	79.4	77.7	77.2	76.8	78.1	78.4	
Daily Max	83.0	80.9	79.7	77.8	79.3	78.9	80.7	80.5	79.6	80.8	79.3	78.0	77.3	78.1	79.4	
Daily Min	80.3	79.8	77.8	77.0	76.6	77.9	77.7	78.3	78.0	79.0	77.1	76.8	76.7	76.6	77.7	
Average	81.4	80.4	78.7	77.5	77.8	78.4	78.9	79.5	78.6	79.7	78.3	77.3	77.0	77.1	78.5	

Missing data due to equipment maintenance.
 Missing data due to equipment malfunction.

High Falls Tailrace Temperature Summary - August 2012

Time HHMMSS	08/01/12	08/02/12	08/03/12	08/04/12	08/05/12	08/06/12	08/07/12	08/08/12	08/09/12	08/10/12	08/11/12	08/12/12	08/13/12	08/14/12	08/15/12	08/16/12
0	78.2	77.5	78.2	77.6	76.7	76.1	75.6	76.9	75.8	74.4	72.9	73.1	72.6	72.5	73.3	72.0
10000	78.1	77.5	78.2	77.6	76.7	75.9	75.5	76.8	75.7	74.2	72.8	72.9	72.5	72.6	73.1	71.9
20000	77.9	77.5	78.3	77.5	76.6	75.8	75.5	76.7	75.6	74.0	72.7	72.7	72.4	72.5	73.0	71.9
30000	77.8	77.5	78.3	77.5	76.5	75.7	75.5	76.7	75.5	73.9	72.6	72.7	72.3	72.4	72.9	71.9
40000	77.8	77.4	78.2	77.5	76.4	75.6	75.5	76.6	75.5	73.7	72.5	72.5	72.2	72.4	72.8	71.9
50000	77.6	77.6	78.0	77.4	76.3	75.4	75.5	76.5	75.3	73.5	72.4	72.4	72.2	72.4	72.7	71.9
60000	77.5	77.5	77.9	77.3	76.2	75.4	75.4	76.2	75.2	73.3	72.3	72.3	72.1	72.4	72.6	71.9
70000	77.5	77.5	77.8	77.4	76.0	75.4	75.4	76.2	75.2	73.3	72.2	72.4	72.2	72.3	72.6	71.9
80000	77.6	77.5	77.8	77.4	75.8	75.6	75.5	76.3	75.2	73.3	72.2	72.5	72.3	72.3	72.8	72.0
90000	77.9	77.5	77.8	77.6	75.8	75.8	75.9	76.5	75.1	73.2	72.5	72.8	72.4	72.6	73.1	72.0
100000	77.9	77.5	77.9	77.7	76.1	76.0	76.2	76.5	75.2	73.4	72.7	72.7	72.6	73.0	73.3	72.0
110000	78.2	77.6	77.9	77.4	76.3	76.1	76.9	76.6	75.4	73.7	73.0	73.2	72.8	73.4	73.4	72.0
120000	78.2	77.7	78.0	77.6	76.6	76.3	77.2	76.6	76.6	74.0	73.3	73.4	73.1	73.5	73.5	72.0
130000	78.2	78.3	78.0	77.6	76.9	76.5	77.8	76.5	75.4	74.3	73.8	73.5	73.1	73.7	73.4	72.1
140000	77.8	78.4	78.1	77.4	76.9	76.6	77.9	76.5	75.3	74.4	74.0	73.1	73.4	73.7	73.1	72.7
150000	77.7	78.3	78.1	77.4	76.9	76.6	77.9	76.5	75.1	74.5	74.3	73.2	73.3	74.0	73.0	72.4
160000	77.9	78.4	78.2	77.3	76.9	76.5	78.1	76.6	75.1	74.6	74.2	73.3	73.3	74.4	72.9	72.5
170000	77.5	78.1	78.3	77.2	76.9	76.6	78.1	76.5	75.0	74.3	74.5	73.4	73.3	74.3	72.8	72.7
180000	77.6	78.2	78.3	77.1	76.8	76.4	78.2	76.4	75.0	73.9	74.3	73.2	73.2	74.0	72.6	72.5
190000	77.2	78.3	78.2	77.1	76.7	76.3	77.9	76.4	74.9	73.6	74.0	73.1	73.0	74.0	72.4	72.4
200000	77.5	78.3	78.0	76.9	76.6	76.2	77.7	76.2	74.8	73.4	73.8	73.0	72.8	73.9	72.4	72.3
210000	77.4	78.2	77.9	76.8	76.4	76.0	77.5	76.2	74.7	73.2	73.5	72.9	72.8	73.7	72.3	72.3
220000	77.4	78.2	77.7	76.7	76.3	75.9	77.3	76.1	74.6	73.0	73.3	72.9	73.0	73.5	72.2	72.1
230000	77.5	78.1	77.7	76.8	76.2	75.8	77.2	76.0	74.5	72.9	73.1	72.7	72.7	73.3	72.1	72.0
Daily Max	78.2	78.4	78.3	77.7	76.9	76.6	78.2	76.9	75.8	74.6	74.5	73.5	73.4	74.4	73.5	72.7
Daily Min	77.2	77.4	77.7	76.7	75.8	75.4	75.4	76.0	74.5	72.9	72.2	72.3	72.1	72.3	71.9	
Average	77.8	77.9	78.0	77.3	76.5	76.0	76.7	76.5	75.2	73.7	73.2	72.9	72.7	73.2	72.9	72.1

Monthly Average Temp:
License Maximum Temperature:

73.6
89 F

 Missing data due to equipment maintenance.

High Falls Tailrace Temperature Summary - August 2012

Time HHMMSS	08/17/12	08/18/12	08/19/12	08/20/12	08/21/12	08/22/12	08/23/12	08/24/12	08/25/12	08/26/12	08/27/12	08/28/12	08/29/12	08/30/12	08/31/12
0	71.9	71.6	71.5	71.3	70.7	70.9	70.7	71.5	71.2	71.6	71.9	73.2	72.4	72.2	72.7
10000	71.7	71.4	71.3	71.3	70.8	70.7	70.6	71.4	71.2	71.8	71.8	73.0	72.3	72.2	73.0
20000	71.5	71.3	71.3	71.2	70.6	70.6	70.6	71.4	71.3	72.1	71.7	72.9	72.2	72.2	73.1
30000	71.4	71.2	71.3	71.1	70.5	70.5	70.6	71.5	71.2	72.2	71.7	72.7	72.2	72.3	73.2
40000	71.3	71.1	71.3	70.9	70.4	70.5	70.6	71.6	71.2	72.3	71.7	72.5	72.1	72.3	73.2
50000	71.2	71.0	71.3	70.8	70.3	70.3	70.7	71.5	71.2	72.3	71.7	72.3	72.0	72.2	73.3
60000	71.1	70.9	71.2	70.6	70.2	70.2	70.7	71.5	71.2	72.4	71.7	72.3	72.0	72.1	73.2
70000	71.0	70.9	71.2	70.5	70.2	70.2	70.8	71.4	71.2	72.4	71.7	72.2	72.0	72.1	73.1
80000	71.0	71.1	71.2	70.7	70.4	70.3	70.9	71.4	71.4	72.3	71.8	72.4	72.1	71.9	73.1
90000	71.2	71.4	71.2	71.0	70.8	70.6	71.1	71.5	71.8	72.2	72.1	72.7	72.3	71.9	73.3
100000	71.4	71.6	71.4	71.2	71.2	70.9	71.5	71.5	72.1	72.3	72.5	73.0	72.6	72.1	73.9
110000	71.7	71.7	71.7	71.4	71.6	71.1	71.6	71.6	72.3	72.3	73.0	73.3	72.8	72.1	74.5
120000	72.0	71.8	71.8	71.6	71.6	71.2	71.8	71.5	72.6	72.3	73.3	73.4	72.9	72.2	75.1
130000	72.4	71.9	71.9	71.5	71.8	71.4	71.9	71.6	72.6	72.4	72.4	73.5	73.0	72.2	75.0
140000	72.7	71.8	72.1	72.1	72.1	71.4	71.7	71.4	72.2	72.5	74.0	73.6	73.1	72.1	75.1
150000	72.9	71.9	72.0	71.9	72.2	71.3	71.6	71.0	72.0	72.3	74.0	73.4	73.0	71.7	75.0
160000	73.0	72.0	71.8	72.2	72.4	71.2	71.4	71.2	71.8	72.1	74.1	73.6	72.8	71.2	75.1
170000	72.9	71.9	72.2	71.9	72.0	71.0	71.3	70.9	71.5	72.2	74.1	73.5	72.6	71.2	75.1
180000	72.6	71.9	72.9	71.7	72.1	70.9	71.9	70.9	71.2	72.1	74.0	73.4	72.3	71.0	74.9
190000	72.4	72.1	72.3	71.8	72.1	70.8	72.0	70.8	71.1	72.0	74.0	72.9	72.2	71.8	74.7
200000	72.2	72.1	72.1	71.5	71.8	70.7	71.7	70.9	71.2	71.9	73.9	72.7	72.2	71.9	74.4
210000	72.0	71.9	71.6	71.3	71.5	70.8	71.7	71.0	71.3	71.9	73.7	72.5	72.1	71.8	74.1
220000	71.9	71.9	71.4	71.1	71.2	70.7	71.5	71.1	71.5	71.8	73.5	72.5	72.3	71.9	74.2
230000	71.8	71.7	71.5	70.8	71.1	70.7	71.5	71.1	71.4	71.8	73.3	72.5	72.2	72.4	74.2
Daily Max	73.0	72.1	72.9	72.2	72.4	71.4	72.0	71.6	72.6	72.5	74.1	73.6	73.1	72.4	75.1
Daily Min	71.0	70.9	71.2	70.5	70.2	70.2	70.6	70.8	71.1	71.6	71.7	72.2	72.0	71.0	72.7
Average	71.9	71.6	71.6	71.3	71.2	70.8	71.3	71.3	71.6	72.1	72.8	72.9	72.4	72.0	74.0

Missing data due to equipment maintenance.

High Falls Tailrace Temperature Summary - September 2012

Time HHMMSS	09/01/12	09/02/12	09/03/12	09/04/12	09/05/12	09/06/12	09/07/12	09/08/12	09/09/12	09/10/12	09/11/12	09/12/12	09/13/12	09/14/12	09/15/12	09/16/12
0	74.1	73.8	73.2	73.1	73.0	73.1	72.5	71.5	70.2	69.8	69.0	68.9	69.1	67.7	68.0	67.0
10000	73.9	73.7	73.1	73.1	73.1	72.8	72.6	71.3	70.1	69.7	68.8	68.8	68.9	67.6	67.8	67.0
20000	73.7	73.6	73.1	73.2	73.1	72.8	72.8	71.2	70.1	69.5	68.7	68.8	68.9	67.6	67.7	66.9
30000	73.7	73.6	73.1	73.1	73.0	72.7	72.8	71.0	69.9	69.4	68.7	68.7	68.8	67.5	67.6	66.8
40000	73.6	73.5	72.5	73.1	73.1	72.7	72.6	70.9	69.8	69.3	68.5	68.6	68.8	67.5	67.4	66.8
50000	73.5	73.3	72.7	73.3	72.9	72.6	72.6	70.8	69.7	69.2	68.5	68.6	68.7	67.4	67.2	66.7
60000	73.5	73.3	72.6	73.1	73.0	72.4	72.7	70.7	69.7	69.1	68.5	68.5	68.7	67.4	67.1	66.6
70000	73.5	73.2	72.6	73.1	72.9	72.4	72.6	70.6	69.6	69.0	68.5	68.5	68.6	67.3	67.1	66.7
80000	73.6	73.2	72.7	73.0	72.9	72.5	72.5	70.6	69.6	69.1	68.6	68.5	68.6	67.3	67.2	66.7
90000	73.9	73.3	73.1	73.1	72.8	72.7	72.5	70.9	69.9	69.5	68.8	68.8	68.6	67.6	67.5	66.9
100000	74.2	73.6	73.5	73.2	72.9	72.8	72.5	71.0	70.2	69.9	69.1	69.1	68.6	67.9	67.8	67.1
110000	74.4	73.9	73.7	73.2	73.0	73.1	72.3	71.2	70.5	70.0	69.3	69.4	68.6	68.2	68.1	67.5
120000	74.8	74.0	73.8	73.6	73.5	73.1	72.3	71.2	70.8	70.1	69.5	69.6	68.8	68.5	68.4	67.7
130000	75.0	74.2	74.2	73.4	73.7	73.1	72.3	71.3	71.2	70.1	69.6	69.7	68.8	68.8	68.4	67.7
140000	75.1	74.2	74.1	73.3	73.8	73.5	72.3	71.2	71.1	70.1	69.6	70.2	68.8		68.4	67.7
150000	75.0	74.3	74.2	73.3	74.0	73.7	72.6	71.3	71.3	70.0	69.4	70.5	68.7	69.5	68.3	67.7
160000	74.9	74.1	73.7	73.4	73.9	73.2	71.9	71.2	71.3	69.9	69.5	70.2	68.6	69.4	68.1	67.5
170000	74.8	73.8	73.5	73.1	73.9	73.5	72.5	71.0	71.2	69.6	69.4	69.9	68.5	69.4	67.9	67.3
180000	74.5	73.6	74.4	73.4	73.9	73.1	72.4	71.0	71.0	69.4	69.2	70.0	68.5	69.1	67.7	67.2
190000	74.2	73.4	74.0	73.1	73.6	73.1	72.1	70.9	70.8	69.2	69.0	69.7	68.4	68.9	67.5	67.1
200000	74.0	73.3	73.0	73.0	73.6	73.0	72.1	70.7	70.4	69.1	69.0	69.6	68.2	68.6	67.4	67.2
210000	73.9	73.2	73.1	73.0	73.5	72.9	71.9	70.7	70.2	69.1	69.0	69.5	68.0	68.4	67.4	67.2
220000	73.8	73.3	73.4	73.0	73.3	72.7	71.8	70.5	70.1	69.1	69.1	69.3	67.9	68.3	67.2	67.2
230000	73.7	73.2	73.3	73.0	73.3	72.7	71.7	70.4	69.9	69.0	69.0	69.2	67.7	68.2	67.1	67.1
Daily Max	75.1	74.3	74.4	73.6	74.0	73.7	72.8	71.5	71.3	70.1	69.6	70.5	69.1	69.5	68.4	67.7
Daily Min	73.5	73.2	72.5	73.0	72.8	72.4	71.7	70.4	69.6	69.0	68.5	68.5	67.7	67.3	67.1	66.6
Average	74.1	73.6	73.4	73.2	73.3	72.9	72.4	71.0	70.4	69.5	69.0	69.3	68.6	68.2	67.7	67.1

Monthly Average Temp:

66.5

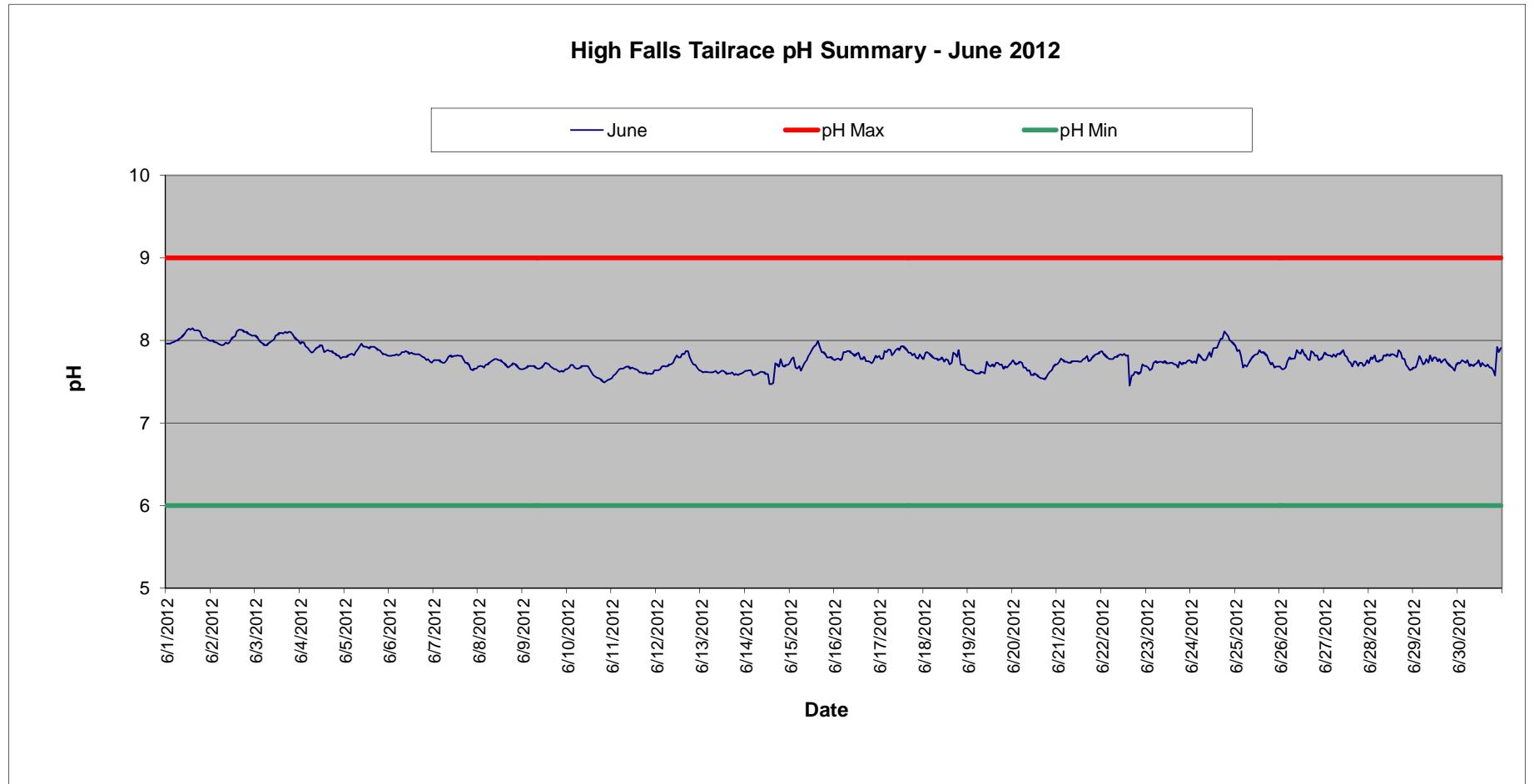
Missing data due to equipment maintenance.

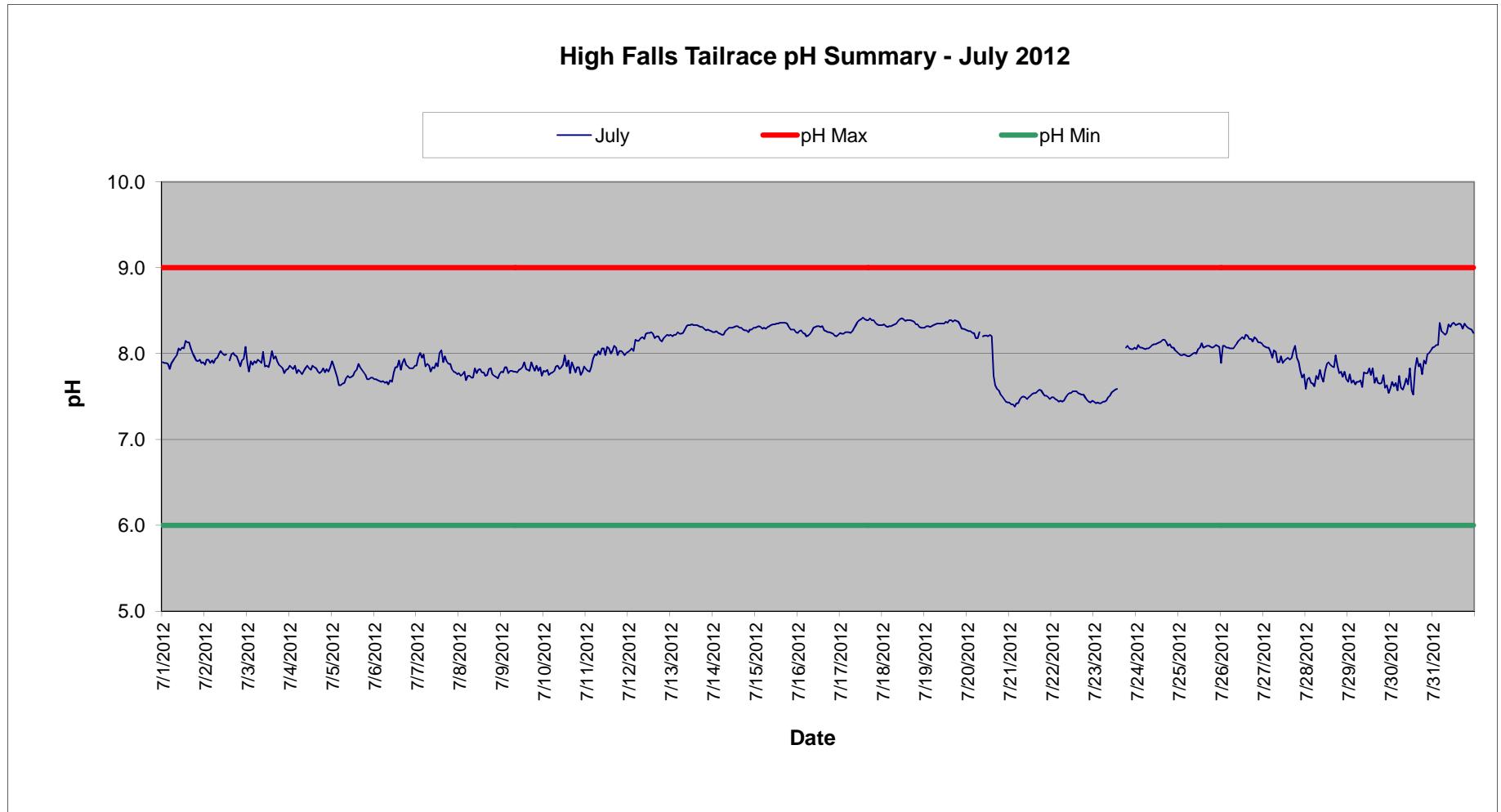
License Maximum Temperature:

89 F

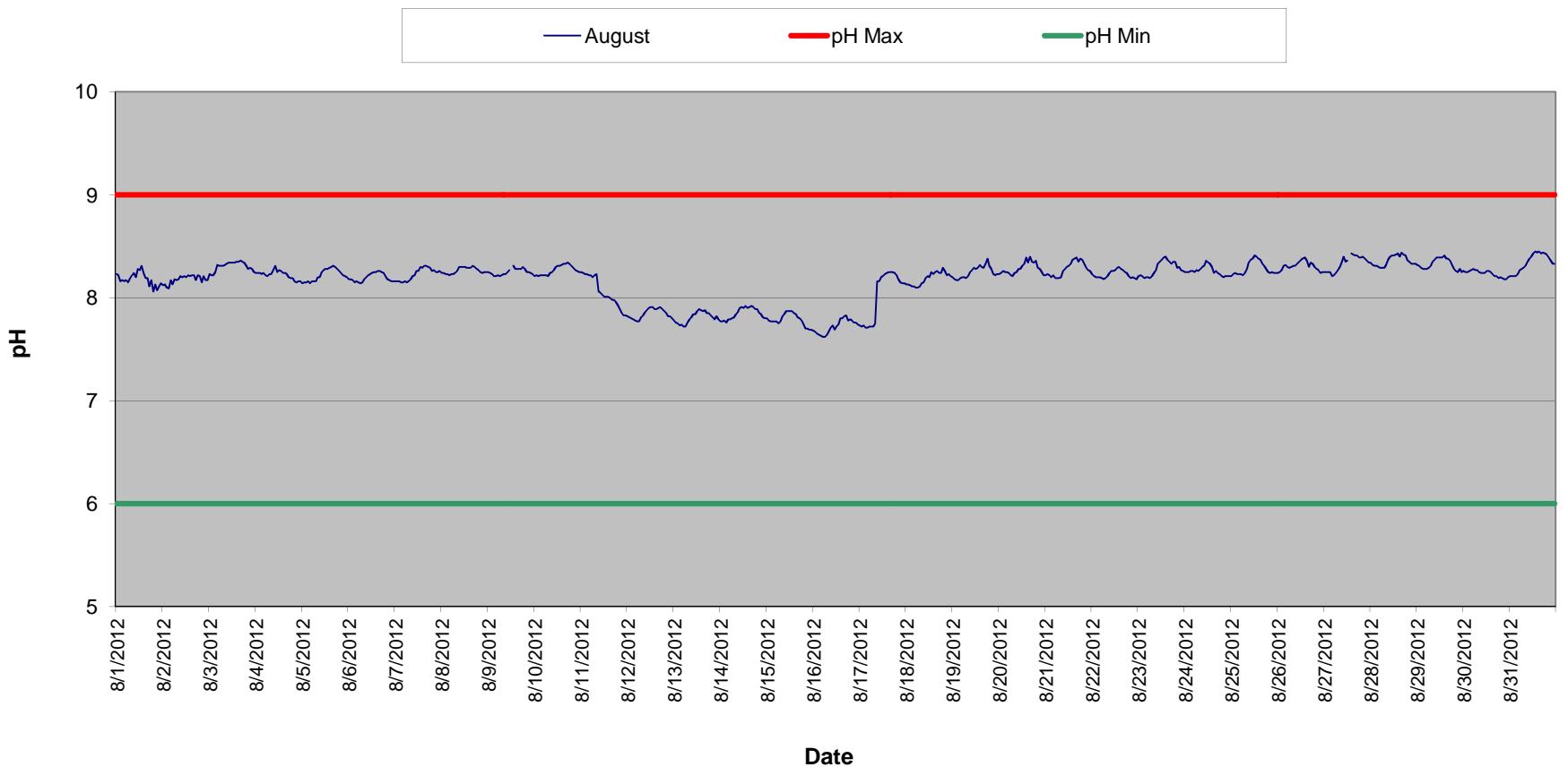
High Falls Tailrace Temperature Summary - September 2012

Time HHMMSS	09/17/12	09/18/12	09/19/12	09/20/12	09/21/12	09/22/12	09/23/12	09/24/12	09/25/12	09/26/12	09/27/12	09/28/12	09/29/12	09/30/12
0	67.1	65.4	64.1	63.2	62.3	61.8	60.4	59.7	59.7	60.5	59.3	58.7	59.1	60.4
10000	67.0	65.3	63.8	63.1	62.2	61.7	60.4	59.6	59.6	60.2	59.3	58.6	59.1	60.2
20000	67.0	65.2	63.9	63.0	62.2	61.6	60.2	59.5	59.5	59.9	59.1	58.5	59.1	60.2
30000	67.0	65.0	63.7	62.9	62.1	61.6	60.1	59.5	59.4	59.7	59.1	58.4	59.1	60.1
40000	66.9	65.0	63.4	62.9	62.1	61.4	60.0	59.5	59.3	59.5	59.0	58.4	59.0	59.9
50000	66.9	65.0	63.3	62.9	62.1	61.4	60.0	59.5	59.3	59.4	58.9	58.3	58.9	59.7
60000	66.9	64.8	63.4	62.7	62.0	61.3	59.9	59.4	59.1	59.3	58.9	58.3	58.9	59.6
70000	66.8	64.7	63.3	62.8	62.0	61.2	59.8	59.4	59.0	59.2	58.8	58.3	58.7	59.5
80000	66.9	64.7	63.3	62.7	62.0	61.3	59.7	59.5	59.0	59.2	58.8	58.3	58.9	59.4
90000	66.9	64.8	63.3	63.1	62.2	61.4	60.0	59.6	59.2	59.4	59.1	58.7	59.2	59.7
100000	67.1	65.0	63.7	63.0	62.5	61.7	60.2	59.8	59.4	59.7	59.4	59.1	59.6	60.0
110000	67.1	65.3	63.6	63.1	62.7	61.6	60.5	60.0	59.7	60.1	59.7	59.5	60.0	60.3
120000	67.1	65.4	63.7	63.5	62.9	61.9	60.7	60.2	60.1	60.4	60.1	60.0	60.5	60.7
130000	67.0	65.0	63.8	63.2	62.9	61.9	60.9	60.3	60.6	60.2	60.2	60.2	60.7	60.8
140000	66.9	65.4	63.6	63.2	62.9	62.2	60.8	60.3	61.2	60.4	59.7	59.9	61.2	60.7
150000	66.7	65.3	63.7	63.2	62.7	62.1	60.6	60.3	60.6	60.2	59.9	59.8	61.1	60.5
160000	66.5	65.1	63.8	63.0	62.6	61.6	60.9	60.2	60.6	60.2	60.0	59.8	61.1	60.4
170000	66.5	64.7	63.8	62.9	62.6	61.3	60.7	60.1	60.2	60.1	59.7	59.8	60.9	60.1
180000	66.1	64.8	63.9	62.9	62.5	61.1	60.5	60.1	60.0	60.1	59.4	59.7	60.8	59.9
190000	66.0	64.7	63.8	62.7	62.3	60.9	60.4	60.0	60.0	60.0	59.3	59.6	60.6	59.7
200000	65.9	64.6	63.8	62.7	62.2	60.9	60.2	60.0	60.1	59.9	59.1	59.5	60.4	59.6
210000	65.8	64.4	63.6	62.6	62.1	60.7	60.1	60.0	60.5	59.8	59.0	59.4	60.5	59.5
220000	65.7	64.2	63.4	62.5	62.0	60.6	59.9	59.8	61.2	59.6	58.9	59.3	60.5	59.3
230000	65.5	64.0	63.3	62.4	61.8	60.6	59.8	59.7	60.9	59.5	58.8	59.2	60.4	59.1
Daily Max	67.1	65.4	64.1	63.5	62.9	62.2	60.9	60.3	61.2	60.5	60.2	60.2	61.2	60.8
Daily Min	65.5	64.0	63.3	62.4	61.8	60.6	59.7	59.4	59.0	59.2	58.8	58.3	58.7	59.1
Average	66.6	64.9	63.6	62.9	62.3	61.4	60.3	59.8	59.9	59.8	59.3	59.1	59.9	60.0

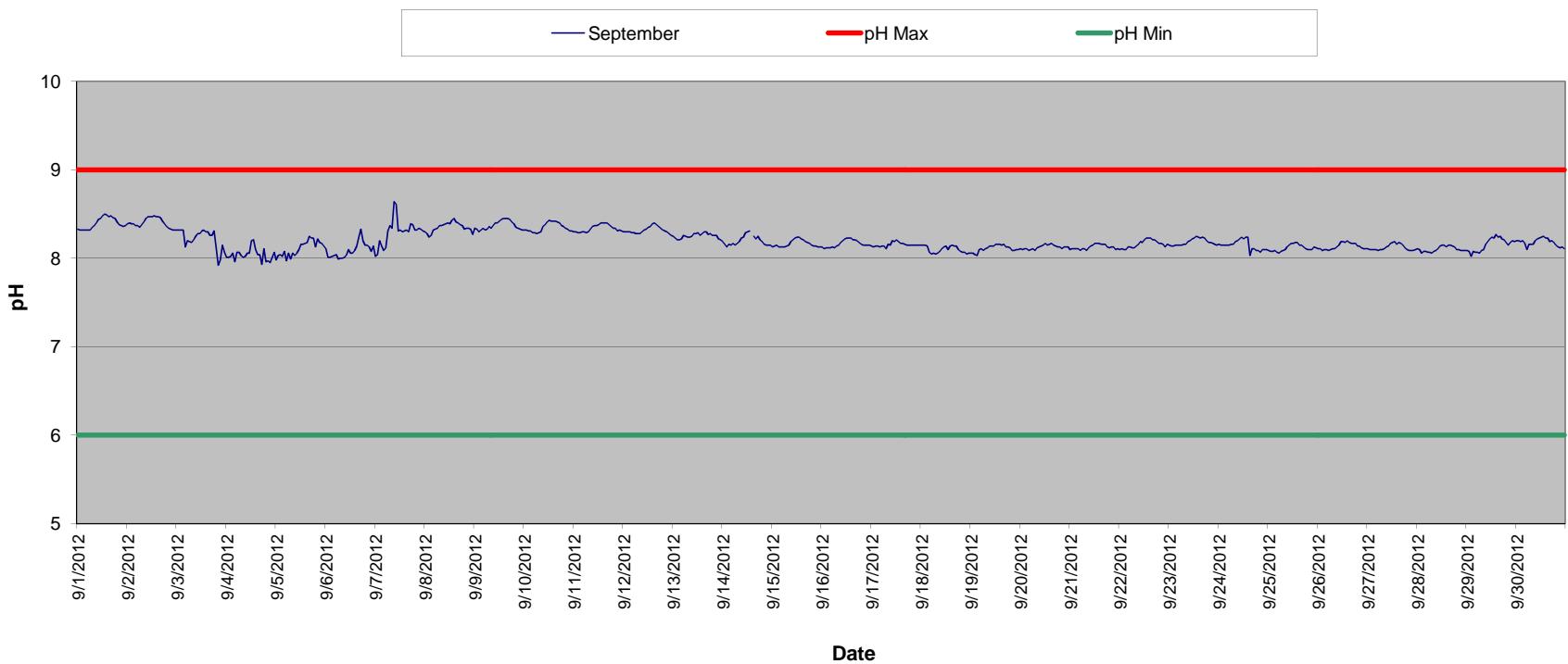




High Falls Tailrace pH Summary - August 2012



High Falls Tailrace pH Summary - September 2012



High Falls Tailrace pH Summary - June 2012

Time HHMMSS	06/01/12	06/02/12	06/03/12	06/04/12	06/05/12	06/06/12	06/07/12	06/08/12	06/09/12	06/10/12	06/11/12	06/12/12	06/13/12	06/14/12	06/15/12	06/16/12
0	8.0	8.0	8.1	8.0	7.8	7.8	7.8	7.7	7.7	7.5	7.6	7.6	7.6	7.7	7.8	
10000	8.0	8.0	8.0	8.0	7.8	7.8	7.7	7.7	7.7	7.6	7.6	7.6	7.6	7.8	7.8	
20000	8.0	8.0	8.0	8.0	7.8	7.8	7.8	7.7	7.7	7.6	7.7	7.6	7.6	7.8	7.8	
30000	8.0	8.0	8.0	7.9	7.8	7.8	7.8	7.7	7.7	7.6	7.7	7.6	7.6	7.7	7.8	
40000	8.0	8.0	8.0	7.9	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.7	7.8	
50000	8.0	8.0	7.9	7.9	7.8	7.8	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.7	7.9	
60000	8.0	7.9	7.9	7.9	7.9	7.8	7.7	7.7	7.7	7.7	7.7	7.6	7.6	7.6	7.9	
70000	8.0	8.0	8.0	7.9	7.9	7.9	7.8	7.8	7.7	7.7	7.7	7.6	7.6	7.7	7.9	
80000	8.0	8.0	8.0	7.9	7.9	7.9	7.8	7.8	7.7	7.7	7.7	7.6	7.6	7.7	7.9	
90000	8.1	8.0	8.0	7.9	8.0	7.9	7.8	7.8	7.7	7.7	7.7	7.6	7.6	7.8	7.9	
100000	8.1	8.0	8.0	7.9	7.9	7.9	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.6	7.8	
110000	8.1	8.0	8.1	7.9	7.9	7.8	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.6	7.8	
120000	8.1	8.0	8.1	7.9	7.9	7.9	7.8	7.8	7.7	7.7	7.7	7.8	7.6	7.6	7.8	
130000	8.1	8.1	8.1	7.9	7.9	7.8	7.8	7.7	7.7	7.6	7.7	7.8	7.6	7.5	7.9	
140000	8.2	8.1	8.1	7.9	7.9	7.8	7.8	7.7	7.7	7.6	7.6	7.8	7.6	7.5	7.8	
150000	8.1	8.1	8.1	7.9	7.9	7.8	7.8	7.7	7.7	7.6	7.6	7.8	7.6	7.5	8.0	
160000	8.1	8.1	8.1	7.9	7.9	7.8	7.8	7.7	7.7	7.6	7.6	7.9	7.6	7.7	7.8	
170000	8.1	8.1	8.1	7.9	7.9	7.8	7.7	7.7	7.7	7.5	7.6	7.9	7.6	7.7	7.8	
180000	8.1	8.1	8.1	7.9	7.9	7.8	7.7	7.7	7.7	7.5	7.6	7.8	7.6	7.7	7.8	
190000	8.1	8.1	8.1	7.8	7.9	7.8	7.7	7.7	7.6	7.5	7.6	7.7	7.6	7.8	7.7	
200000	8.0	8.1	8.1	7.8	7.9	7.8	7.7	7.7	7.6	7.5	7.6	7.7	7.6	7.7	7.7	
210000	8.0	8.1	8.0	7.8	7.8	7.8	7.6	7.7	7.6	7.5	7.6	7.7	7.6	7.7	7.8	
220000	8.0	8.1	8.0	7.8	7.8	7.7	7.7	7.7	7.6	7.5	7.6	7.7	7.6	7.7	7.8	
230000	8.0	8.1	8.0	7.8	7.8	7.7	7.7	7.7	7.7	7.5	7.6	7.6	7.6	7.7	7.8	
Daily Max	8.2	8.1	8.1	8.0	8.0	7.9	7.8	7.8	7.7	7.7	7.7	7.9	7.6	7.8	8.0	
Daily Min	8.0	7.9	7.9	7.8	7.8	7.7	7.6	7.7	7.6	7.5	7.5	7.6	7.6	7.5	7.7	
Average	8.0	8.0	8.0	7.9	7.9	7.8	7.8	7.8	7.7	7.7	7.6	7.7	7.6	7.6	7.8	

License maximum pH: 9

License minimum pH: 6

High Falls Tailrace pH Summary - June 2012

Time HHMMSS	06/17/12	06/18/12	06/19/12	06/20/12	06/21/12	06/22/12	06/23/12	06/24/12	06/25/12	06/26/12	06/27/12	06/28/12	06/29/12	06/30/12
0	7.8	7.8	7.6	7.8	7.7	7.9	7.7	7.8	7.9	7.7	7.9	7.7	7.7	7.7
10000	7.8	7.9	7.6	7.7	7.7	7.8	7.7	7.7	7.9	7.7	7.8	7.8	7.7	7.7
20000	7.8	7.9	7.6	7.7	7.8	7.8	7.6	7.8	7.9	7.7	7.8	7.8	7.7	7.8
30000	7.9	7.8	7.6	7.7	7.8	7.8	7.7	7.7	7.8	7.7	7.8	7.8	7.8	7.8
40000	7.9	7.8	7.6	7.7	7.7	7.8	7.7	7.8	7.7	7.7	7.8	7.8	7.8	7.7
50000	7.9	7.8	7.6	7.7	7.7	7.8	7.8	7.8	7.7	7.8	7.8	7.7	7.7	7.8
60000	7.9	7.8	7.6	7.7	7.7	7.8	7.7	7.8	7.7	7.8	7.8	7.8	7.7	7.7
70000	7.8	7.8	7.6	7.7	7.7	7.8	7.7	7.8	7.7	7.8	7.8	7.8	7.8	7.7
80000	7.9	7.8	7.6	7.6	7.8	7.8	7.7	7.8	7.8	7.8	7.8	7.8	7.7	7.7
90000	7.9	7.8	7.6	7.6	7.8	7.8	7.7	7.8	7.8	7.9	7.9	7.8	7.8	7.7
100000	7.9	7.8	7.7	7.6	7.8	7.8	7.8	7.9	7.8	7.9	7.9	7.8	7.8	7.7
110000	7.9	7.7	7.7	7.6	7.8	7.8	7.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8
120000	7.9	7.8	7.7	7.6	7.7	7.8	7.7	7.9	7.8	7.9	7.8	7.8	7.8	7.7
130000	7.9	7.8	7.7	7.6	7.7	7.8	7.7	7.9	7.9	7.8	7.8	7.8	7.8	7.7
140000	7.9	7.7	7.7	7.6	7.8	7.8	7.7	7.9	7.9	7.8	7.7	7.8	7.8	7.7
150000	7.9	7.7	7.7	7.5	7.8	7.5	7.7	8.0	7.9	7.8	7.7	7.8	7.7	7.7
160000	7.9	7.9	7.7	7.5	7.8	7.6	7.7	8.0	7.8	7.8	7.8	7.9	7.8	7.7
170000	7.9	7.8	7.7	7.5	7.8	7.6	7.7	8.0	7.8	7.9	7.7	7.9	7.8	7.7
180000	7.8	7.8	7.7	7.6	7.8	7.6	7.7	8.1	7.8	7.9	7.7	7.8	7.7	7.7
190000	7.8	7.9	7.7	7.6	7.8	7.6	7.7	8.1	7.7	7.8	7.7	7.8	7.7	7.6
200000	7.8	7.7	7.7	7.6	7.8	7.6	7.7	8.1	7.7	7.8	7.7	7.7	7.7	7.6
210000	7.8	7.7	7.7	7.6	7.8	7.6	7.7	8.0	7.7	7.8	7.7	7.7	7.7	7.9
220000	7.8	7.7	7.7	7.7	7.8	7.7	7.8	8.0	7.7	7.8	7.7	7.6	7.6	7.9
230000	7.8	7.7	7.7	7.7	7.9	7.7	7.8	8.0	7.7	7.8	7.8	7.7	7.7	7.9
Daily Max	7.9	7.9	7.7	7.8	7.9	7.9	7.8	8.1	7.9	7.9	7.9	7.9	7.8	7.9
Daily Min	7.8	7.7	7.6	7.5	7.7	7.5	7.6	7.7	7.7	7.7	7.7	7.6	7.6	7.6
Average	7.8	7.8	7.7	7.6	7.8	7.7	7.7	7.9	7.8	7.8	7.8	7.8	7.7	7.7

High Falls Tailrace pH Summary - July 2012

Time HHMMSS	07/01/12	07/02/12	07/03/12	07/04/12	07/05/12	07/06/12	07/07/12	07/08/12	07/09/12	07/10/12	07/11/12	07/12/12	07/13/12	07/14/12	07/15/12	07/16/12
0	7.9	7.9	7.9	7.9	7.9	7.7	7.9	7.8	7.8	7.8	8.0	8.2	8.3	8.3	8.2	
10000	7.9	7.9	7.8	7.8	7.9	7.7	8.0	7.7	7.8	7.8	8.0	8.2	8.3	8.3	8.3	
20000	7.9	7.9	7.9	7.8	7.8	7.7	8.0	7.8	7.8	7.8	8.1	8.2	8.3	8.3	8.3	
30000	7.9	7.9	7.9	7.9	7.7	7.7	8.0	7.8	7.8	7.8	8.0	8.2	8.2	8.3	8.2	
40000	7.8	7.9	7.9	7.8	7.6	7.7	8.0	7.7	7.8	7.8	7.9	8.2	8.3	8.2	8.2	
50000	7.9	7.9	7.9	7.8	7.6	7.7	7.9	7.7	7.8	7.8	8.0	8.2	8.2	8.3	8.2	
60000	7.9	7.9	7.9	7.8	7.7	7.7	7.9	7.7	7.8	7.8	8.0	8.2	8.2	8.3	8.2	
70000	8.0	8.0	7.9	7.8	7.7	7.7	7.9	7.7	7.8	7.9	8.0	8.2	8.2	8.3	8.2	
80000	8.0	8.0	7.9	7.8	7.7	7.6	7.8	7.7	7.8	7.9	8.0	8.2	8.3	8.3	8.3	
90000	8.1	8.0	8.0	7.8	7.7	7.7	7.8	7.8	7.8	7.8	8.1	8.2	8.3	8.3	8.3	
100000	8.0	8.0	7.9	7.9	7.7	7.7	7.8	7.8	7.8	7.8	8.1	8.2	8.3	8.3	8.3	
110000	8.1	8.0	7.9	7.8	7.7	7.8	7.9	7.8	7.8	7.9	8.0	8.2	8.3	8.3	8.3	
120000	8.1	8.0	7.8	7.8	7.7	7.8	7.9	7.8	7.8	8.0	8.1	8.2	8.3	8.3	8.3	
130000	8.2		7.9	7.9	7.8	7.8	8.0	7.8	7.9	7.9	8.1	8.3	8.3	8.4	8.3	
140000	8.1	7.9	8.0	7.8	7.8	7.9	8.0	7.8	7.8	7.9	8.0	8.2	8.3	8.3	8.3	
150000	8.1	8.0	7.9	7.8	7.9	7.8	7.9	7.7	7.8	7.8	8.0	8.2	8.3	8.4	8.3	
160000	8.1	8.0	8.0	7.8	7.8	7.9	8.0	7.8	7.8	7.9	8.1	8.2	8.3	8.3	8.3	
170000	8.0	8.0	7.9	7.8	7.8	7.9	7.9	7.8	7.9	7.8	8.1	8.2	8.3	8.3	8.3	
180000	8.0	8.0	7.9	7.8	7.8	7.9	7.9	7.8	7.8	7.8	8.0	8.2	8.3	8.3	8.3	
190000	7.9	7.9	7.9	7.8	7.8	7.9	7.9	7.8	7.8	7.8	8.0	8.1	8.3	8.3	8.2	
200000	7.9	7.9	7.8	7.8	7.7	7.8	7.8	7.7	7.9	7.8	8.0	8.2	8.3	8.3	8.2	
210000	7.9	7.9	7.8	7.8	7.7	7.8	7.8	7.7	7.8	7.8	8.0	8.2	8.3	8.3	8.2	
220000	7.9	7.9	7.8	7.8	7.7	7.8	7.8	7.7	7.8	7.8	8.0	8.2	8.3	8.3	8.2	
230000	7.9	8.1	7.8	7.8	7.7	7.9	7.8	7.8	7.7	7.9	8.0	8.2	8.3	8.3	8.2	
Daily Max	8.2	8.1	8.0	7.9	7.9	7.9	8.0	7.8	7.9	8.0	8.1	8.3	8.3	8.4	8.3	
Daily Min	7.8	7.9	7.8	7.8	7.6	7.6	7.8	7.7	7.7	7.8	7.8	8.0	8.2	8.2	8.2	
Average	8.0	8.0	7.9	7.8	7.7	7.8	7.9	7.8	7.8	7.8	8.0	8.2	8.3	8.3	8.3	

License maximum pH: 9

License minimum pH: 6

 Missing data due to equipment maintenance.

High Falls Tailrace pH Summary - July 2012

Time HHMMSS	07/17/12	07/18/12	07/19/12	07/20/12	07/21/12	07/22/12	07/23/12	07/24/12	07/25/12	07/26/12	07/27/12	07/28/12	07/29/12	07/30/12	07/31/12
0	8.2	8.3	8.3	8.3	7.4	7.5	7.4	8.1	8.0	7.9	8.1	7.6	7.7	7.6	8.1
10000	8.2	8.3	8.3	8.3	7.4	7.5	7.4	8.1	8.0	8.1	8.1	7.7	7.8	7.7	8.1
20000	8.2	8.3	8.3	8.3	7.4	7.5	7.4	8.1	8.0	8.1	8.1	7.7	7.7	7.6	8.1
30000	8.3	8.3	8.3	8.2	7.4	7.5	7.4	8.1	8.0	8.1	8.1	7.7	7.7	7.7	8.1
40000	8.3	8.3	8.3	8.2	7.4	7.4	7.4	8.1	8.0	8.1	8.0	7.7	7.6	7.6	8.4
50000	8.3	8.3	8.3	8.2	7.4	7.5	7.4	8.1	8.0	8.1	8.0	7.6	7.7	7.7	8.3
60000	8.2	8.3	8.3	8.2	7.5	7.4	7.4	8.1	8.0	8.1	8.0	7.7	7.7	7.6	8.2
70000	8.3	8.3	8.4	8.3	7.5	7.5	7.5	8.1	8.0	8.1	8.0	7.7	7.7	7.6	8.2
80000	8.3	8.4	8.4	8.4	7.5	7.5	7.5	8.1	8.0	8.1	7.9	7.8	7.6	7.6	8.2
90000	8.3	8.4	8.4	8.2	7.5	7.5	7.5	8.1	8.0	8.1	7.9	7.7	7.8	7.7	8.3
100000	8.4	8.4	8.4	8.2	7.5	7.5	7.6	8.1	8.0	8.2	8.0	7.7	7.8	7.6	8.3
110000	8.4	8.4	8.4	8.2	7.5	7.5	7.6	8.1	8.1	8.2	7.9	7.8	7.8	7.8	8.4
120000	8.4	8.4	8.4	8.2	7.5	7.6	7.6	8.1	8.1	8.2	7.9	7.9	7.8	7.6	8.4
130000	8.4	8.4	8.4	8.2	7.5	7.6	7.6	8.1	8.1	8.2	7.9	7.9	7.8	7.5	8.3
140000	8.4	8.4	8.4	8.2	7.5	7.6	8.1	8.1	8.2	8.0	7.9	7.8	7.8	8.3	
150000	8.4	8.4	8.4	7.7	7.5	7.5	8.2	8.1	8.2	7.9	7.9	7.7	8.0	8.4	
160000	8.4	8.4	8.4	7.6	7.6	7.5	8.2	8.1	8.2	8.0	7.8	7.7	7.9	8.3	
170000	8.4	8.4	8.4	7.6	7.6	7.5	8.1	8.1	8.2	8.0	8.0	7.7	7.9	8.3	
180000	8.4	8.4	8.4	7.6	7.6	7.5	8.1	8.1	8.1	8.1	7.9	7.7	7.8	8.4	
190000	8.4	8.3	8.4	7.5	7.5	7.5	8.1	8.1	8.1	8.2	8.0	7.8	7.7	7.9	8.3
200000	8.4	8.3	8.3	7.5	7.5	7.5	8.1	8.1	8.1	8.2	7.9	7.8	7.8	7.9	8.3
210000	8.3	8.3	8.3	7.5	7.5	7.4	8.1	8.1	8.1	8.1	7.8	7.7	7.6	8.0	8.3
220000	8.3	8.3	8.3	7.4	7.5	7.4	8.1	8.0	8.1	8.1	7.7	7.8	7.6	8.0	8.3
230000	8.3	8.3	8.3	7.4	7.5	7.5	8.1	8.0	8.1	8.1	7.8	7.7	7.5	8.0	8.2
Daily Max	8.4	8.4	8.4	8.3	7.6	7.6	8.1	8.2	8.1	8.2	8.1	8.0	7.8	8.0	8.4
Daily Min	8.2	8.3	8.3	7.4	7.4	7.4	8.0	8.0	8.0	7.9	7.7	7.6	7.5	7.5	8.1
Average	8.3	8.4	8.3	8.0	7.5	7.5	7.7	8.1	8.0	8.1	8.0	7.8	7.7	7.8	8.3

 Missing data due to equipment maintenance.

 Missing data due to equipment malfunction.

High Falls Tailrace pH Summary - August 2012

Time HHMMSS	08/01/12	08/02/12	08/03/12	08/04/12	08/05/12	08/06/12	08/07/12	08/08/12	08/09/12	08/10/12	08/11/12	08/12/12	08/13/12	08/14/12	08/15/12	08/16/12
0	8.2	8.1	8.2	8.2	8.1	8.2	8.2	8.2	8.3	8.2	8.3	7.8	7.8	7.8	7.8	7.7
10000	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.8	7.8	7.8	7.8	7.7
20000	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.8	7.8	7.8	7.8	7.7
30000	8.2	8.1	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.8	7.7	7.8	7.8	7.6
40000	8.2	8.2	8.3	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	7.8	7.7	7.8	7.8	7.6
50000	8.2	8.1	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.8	7.7	7.8	7.8	7.6
60000	8.2	8.2	8.3	8.2	8.2	8.1	8.2	8.2	8.2	8.2	8.2	7.8	7.7	7.8	7.8	7.6
70000	8.2	8.2	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.8	7.8	7.8	7.8	7.6
80000	8.2	8.2	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.8	7.8	7.8	7.8	7.7
90000	8.2	8.2	8.3	8.3	8.2	8.2	8.2	8.3	8.2	8.3	8.1	7.9	7.8	7.9	7.8	7.7
100000	8.2	8.2	8.3	8.3	8.3	8.2	8.2	8.3	8.3	8.3	8.1	7.9	7.8	7.9	7.9	7.7
110000	8.3	8.2	8.3	8.3	8.3	8.2	8.3	8.3	8.3	8.3	8.0	7.9	7.8	7.9	7.9	7.7
120000	8.3	8.2	8.3	8.3	8.3	8.2	8.3	8.3	8.3	8.3	8.0	7.9	7.9	7.9	7.9	7.7
130000	8.3	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.0	7.9	7.9	7.9	7.9	7.7
140000	8.2	8.2	8.4	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.0	7.9	7.9	7.9	7.9	7.8
150000	8.2	8.2	8.4	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.0	7.9	7.9	7.9	7.8	7.8
160000	8.2	8.2	8.4	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.0	7.9	7.9	7.9	7.8	7.8
170000	8.1	8.2	8.4	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.0	7.9	7.9	7.9	7.8	7.8
180000	8.2	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.0	7.9	7.9	7.9	7.8	7.8
190000	8.1	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.3	8.3	7.9	7.9	7.8	7.9	7.7	7.8
200000	8.1	8.2	8.3	8.2	8.2	8.2	8.3	8.3	8.3	8.3	7.9	7.9	7.8	7.9	7.7	7.8
210000	8.1	8.2	8.3	8.2	8.2	8.2	8.3	8.2	8.3	8.3	7.9	7.8	7.8	7.8	7.7	7.8
220000	8.1	8.2	8.3	8.2	8.2	8.2	8.3	8.3	8.2	8.3	7.8	7.8	7.8	7.8	7.7	7.8
230000	8.1	8.2	8.3	8.2	8.2	8.2	8.3	8.3	8.2	8.3	7.8	7.8	7.8	7.8	7.7	7.7
Daily Max	8.3	8.2	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	7.9	7.9	7.9	7.9	7.8
Daily Min	8.1	8.1	8.2	8.2	8.1	8.1	8.2	8.2	8.2	8.2	7.8	7.8	7.7	7.8	7.7	7.6
Average	8.2	8.2	8.3	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.1	7.8	7.8	7.8	7.8	7.7

License maximum pH: 9
 License minimum pH: 6

 Missing data due to equipment maintenance.

High Falls Tailrace pH Summary - August 2012

Time HHMMSS	08/17/12	08/18/12	08/19/12	08/20/12	08/21/12	08/22/12	08/23/12	08/24/12	08/25/12	08/26/12	08/27/12	08/28/12	08/29/12	08/30/12	08/31/12
0	7.7	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.2
10000	7.7	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.2
20000	7.7	8.1	8.2	8.3	8.2	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.2
30000	7.7	8.1	8.2	8.3	8.2	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.2
40000	7.7	8.1	8.2	8.3	8.2	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.2
50000	7.7	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.3
60000	7.7	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.3
70000	7.7	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.3
80000	7.8	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.3	8.3	8.3	8.3	8.4	8.3	8.3
90000	8.2	8.2	8.3	8.3	8.3	8.2	8.3	8.3	8.3	8.3	8.3	8.4	8.4	8.2	8.4
100000	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.4	8.3	8.3	8.4	8.4	8.4	8.2	8.4
110000	8.2	8.2	8.3	8.3	8.3	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.2	8.4
120000	8.2	8.2	8.3	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.4
130000	8.2	8.3	8.3	8.3	8.3	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.5
140000	8.2	8.2	8.3	8.4	8.4	8.3	8.4	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.4
150000	8.3	8.3	8.3	8.3	8.4	8.3	8.4	8.2	8.4	8.4	8.4	8.4	8.4	8.2	8.5
160000	8.3	8.3	8.3	8.4	8.4	8.3	8.4	8.3	8.3	8.3	8.4	8.4	8.4	8.2	8.4
170000	8.3	8.2	8.3	8.4	8.4	8.3	8.3	8.2	8.3	8.3	8.4	8.4	8.4	8.2	8.4
180000	8.2	8.2	8.4	8.3	8.4	8.2	8.4	8.2	8.3	8.3	8.4	8.4	8.3	8.2	8.4
190000	8.2	8.3	8.3	8.4	8.4	8.2	8.4	8.2	8.3	8.3	8.4	8.4	8.3	8.2	8.4
200000	8.2	8.3	8.3	8.3	8.3	8.2	8.3	8.2	8.2	8.3	8.4	8.4	8.3	8.2	8.4
210000	8.2	8.2	8.2	8.3	8.3	8.2	8.3	8.2	8.3	8.3	8.4	8.3	8.3	8.2	8.4
220000	8.1	8.2	8.2	8.3	8.3	8.2	8.3	8.2	8.2	8.2	8.2	8.4	8.3	8.2	8.3
230000	8.1	8.2	8.2	8.2	8.3	8.2	8.3	8.2	8.2	8.2	8.3	8.3	8.3	8.2	8.3
Daily Max	8.3	8.3	8.4	8.4	8.4	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.5
Daily Min	7.7	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.3	8.2	8.2
Average	8.0	8.2	8.2	8.3	8.3	8.2	8.3	8.3	8.3	8.3	8.3	8.4	8.3	8.2	8.3

[REDACTED]

Missing data due to equipment maintenance.

High Falls Tailrace pH Summary - September 2012

Time HHMMSS	09/01/12	09/02/12	09/03/12	09/04/12	09/05/12	09/06/12	09/07/12	09/08/12	09/09/12	09/10/12	09/11/12	09/12/12	09/13/12	09/14/12	09/15/12	09/16/12
0	8.3	8.4	8.3	8.0	8.0	8.1	8.0	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.1	8.1
10000	8.3	8.4	8.3	8.0	8.0	8.0	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.1	8.1
20000	8.3	8.4	8.3	8.0	8.0	8.0	8.2	8.2	8.3	8.3	8.3	8.2	8.1	8.2	8.1	8.1
30000	8.3	8.4	8.3	8.1	8.0	8.0	8.1	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.1	8.1
40000	8.3	8.4	8.1	8.0	8.1	8.0	8.1	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.1	8.1
50000	8.3	8.4	8.2	8.1	8.0	8.0	8.1	8.3	8.3	8.3	8.3	8.3	8.2	8.1	8.1	8.1
60000	8.3	8.4	8.2	8.1	8.1	8.0	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.1	8.1	8.1
70000	8.4	8.4	8.2	8.0	8.0	8.0	8.4	8.4	8.4	8.3	8.3	8.2	8.2	8.1	8.1	8.1
80000	8.4	8.4	8.2	8.0	8.1	8.0	8.3	8.4	8.3	8.3	8.3	8.2	8.2	8.2	8.2	8.2
90000	8.4	8.5	8.3	8.0	8.0	8.0	8.6	8.4	8.4	8.4	8.3	8.3	8.2	8.2	8.2	8.2
100000	8.4	8.5	8.3	8.1	8.1	8.0	8.6	8.4	8.4	8.4	8.3	8.3	8.2	8.2	8.2	8.2
110000	8.5	8.5	8.3	8.1	8.1	8.1	8.3	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.2	8.2
120000	8.5	8.5	8.3	8.2	8.2	8.1	8.3	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.2	8.2
130000	8.5	8.5	8.3	8.2	8.2	8.1	8.3	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.2
140000	8.5	8.5	8.3	8.1	8.2	8.1	8.3	8.5	8.5	8.4	8.4	8.4	8.3	8.2	8.2	8.2
150000	8.5	8.5	8.3	8.0	8.2	8.1	8.3	8.4	8.5	8.4	8.4	8.4	8.3	8.2	8.2	8.2
160000	8.5	8.5	8.3	8.0	8.3	8.2	8.3	8.4	8.5	8.4	8.4	8.4	8.3	8.2	8.2	8.2
170000	8.5	8.4	8.3	7.9	8.2	8.3	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.2
180000	8.5	8.4	8.3	8.1	8.2	8.2	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.2	8.2	8.2
190000	8.4	8.4	8.1	8.0	8.1	8.2	8.3	8.3	8.4	8.4	8.3	8.3	8.2	8.2	8.2	8.2
200000	8.4	8.3	7.9	8.0	8.2	8.2	8.3	8.3	8.4	8.3	8.3	8.3	8.2	8.1	8.2	8.2
210000	8.4	8.3	8.0	8.0	8.2	8.1	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.1	8.2	8.2
220000	8.4	8.3	8.2	8.0	8.2	8.1	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.2	8.2
230000	8.4	8.3	8.1	8.1	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.2	8.2	8.1	8.2	8.2
Daily Max	8.5	8.5	8.3	8.2	8.3	8.3	8.6	8.5	8.5	8.4	8.4	8.4	8.3	8.3	8.2	8.2
Daily Min	8.3	8.3	7.9	7.9	8.0	8.0	8.0	8.2	8.3	8.3	8.3	8.2	8.1	8.1	8.1	8.1
Average	8.4	8.4	8.2	8.0	8.1	8.1	8.3	8.4	8.4	8.3	8.3	8.3	8.2	8.2	8.2	8.2

License maximum pH: 9

License minimum pH: 6

Missing data due to equipment maintenance.

High Falls Tailrace pH Summary - September 2012

Time HHMMSS	09/17/12	09/18/12	09/19/12	09/20/12	09/21/12	09/22/12	09/23/12	09/24/12	09/25/12	09/26/12	09/27/12	09/28/12	09/29/12	09/30/12
0	8.1	8.2	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.2
10000	8.1	8.2	8.1	8.1	8.1	8.1	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.2
20000	8.1	8.2	8.0	8.1	8.1	8.1	8.2	8.1	8.1	8.1	8.1	8.1	8.0	8.2
30000	8.1	8.1	8.0	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2
40000	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.2
50000	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.1
60000	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.2
70000	8.1	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.2
80000	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.1	8.2
90000	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.2
100000	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.1	8.1	8.2	8.2
110000	8.2	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.2	8.2
120000	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
130000	8.2	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.3
140000	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.1	8.3	8.2
150000	8.2	8.2	8.2	8.2	8.2	8.2	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2
160000	8.2	8.1	8.2	8.2	8.2	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.3	8.2
170000	8.2	8.1	8.1	8.2	8.2	8.2	8.1	8.1	8.2	8.2	8.2	8.1	8.2	8.2
180000	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.2	8.1	8.1	8.2	8.2
190000	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.2
200000	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.1
210000	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.1
220000	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.1
230000	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.1
Daily Max	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.2	8.2	8.2	8.2	8.2	8.3	8.3
Daily Min	8.1	8.1	8.0	8.1	8.1	8.1	8.0	8.1	8.1	8.1	8.1	8.1	8.0	8.1
Average	8.2	8.1	8.1	8.1	8.1	8.2	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.2

Attachment B

High Falls Hydroelectric Project

FERC No. 2595

Documentation of Agency Consultation

Metcalf, Mark W

From: Metcalf, Mark W
Sent: Thursday, October 04, 2012 2:10 PM
To: Laatsch, Cheryl - DNR; Utrup, Nick
Cc: Puzen, Shawn C; Brandt, Edward S; Bosacki, William K
Subject: High Falls Hydroelectric Project - Water quality monitoring report
Attachments: 20121004 HF WQ report.pdf; High Falls Bridge Temp Summary 2012.xlsx; High Falls Bridge DO Summary 2012.xlsx; High Falls Bridge pH Summary 2012.xlsx

Good afternoon,

Attached for your review and comment are the results of water quality monitoring conducted at the High Falls Hydroelectric Project in 2012. Should you have any questions, please feel free to contact me.

Thanks,
Mark

Mark Metcalf

Environmental Consultant - Air & Water | Integrys Business Support, LLC

920-433-1833 (Green Bay)

920-617-6046 (De Pere)

920-606-8432 cell

920-433-4916 fax

mwmetcalf@integrysgroup.com

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Providing support for Integrys Energy Group, Integrys Energy Services, Integrys Transportation Fuels, Michigan Gas Utilities, Minnesota Energy Resources, North Shore Gas, Peoples Gas, Upper Peninsula Power Company and Wisconsin Public Service.



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October 4, 2012

FERC Project No. 2595

Ms. Cheryl Laatsch
Wisconsin Department of Natural Resources
Office of Energy, Water Mgmt Specialist
101 S. Webster St.
Madison, WI 53703

Mr. Nicholas Utrup
U.S. Fish & Wildlife Service
Wisconsin Ecological Services Office
2661 Scott Tower Drive
New Franken, WI 54229

Dear Ms. Laatsch and Mr. Utrup:

Re: 2012 Water Quality Monitoring Report – High Falls Hydroelectric Project

Pursuant to the water quality monitoring plan for the High Falls Hydroelectric project, Wisconsin Public Service Corporation (WPSC) is submitting water quality monitoring data collected during the 2012 monitoring season for your review and comment.

As described in the monitoring plan, water quality monitoring is conducted downstream of the powerhouse annually from June 1st through September 30th. Monitoring downstream of the powerhouse is conducted where High Falls Road crosses the Peshtigo River. Monitoring upstream of the project occurs every 5 years in conjunction with water quality monitoring conducted at the Caldron Falls Hydroelectric Project. Upstream monitoring was conducted in 2011 and is scheduled to occur again in 2016.

Monitoring data for dissolved oxygen (DO), temperature, and pH is collected at one-hour intervals on a continuous basis. Data was collected using portable water quality monitoring equipment manufactured by Hydrolab, Inc. As described in the water quality monitoring plan for the project, the instrumentation was cleaned and calibrated according to manufacturer specification every 7-10 days during the monitoring period. A post deployment calibration was conducted to determine the extent of calibration drift. Raw data was adjusted assuming a linear degradation of calibration based upon a post calibration of the equipment. The water quality monitoring equipment used to monitor dissolved oxygen has an accuracy of +/- 0.1 mg/l, per the manufacturer. For compliance purposes, dissolved oxygen concentrations more than 0.1 mg/l below the applicable water quality standard are potential deviations.

October 4, 2012
Ms. Laatsch and Mr. Utrup
Page 2 of 2

Per the Project License, WPSC is required to ensure flow releases from the project, as measured immediately downstream from the dam, maintain the following standards, except when natural conditions prohibit attainment of the standards: (1) DO concentrations shall not be less than 5.0 milligrams per liter (mg/L) (minus the precision of the monitoring instrument) for more than 24 hours per year; (2) water temperature shall not exceed 89 degrees Fahrenheit; and (3) the pH shall be within the range of 6.0 to 9.0, with no change greater than 0.5 units outside the estimated natural seasonal maximum and minimum. Natural conditions include inflows to the project less than the 95 percent exceedance flow.

No deviations from the dissolved oxygen, pH or temperature water quality standards were observed during the 2012 monitoring season. There were 5 hours of missing monitoring data due to the maintenance and calibration of the monitoring equipment, 4 hours of missing data due to an equipment malfunction, and 4 hours of missing DO data due to a sensor failure on the monitoring equipment.

Enclosed with this report are excel spreadsheets containing the monitoring data, in both tabular and graphical format, with the periods of missing data identified. Please review the enclosed data and provide any comments you may have as soon as possible, but by no later than November 5th, 2012. Should you have any questions or concerns, please do not hesitate to call me at (920) 433-1833.

Sincerely,



Mark Metcalf
Environmental Consultant – Air & Water
Integrys Business Support, LLC
mwmetcalf@integrysgroup.com

Enc.

Cc: Mr. Shawn Puzen – IBS
Mr. Ed Brandt – WPSC
Mr. William Bosacki – WPSC

Metcalf, Mark W

From: Laatsch, Cheryl - DNR [Cheryl.Laatsch@Wisconsin.gov]
Sent: Tuesday, October 23, 2012 1:50 PM
To: Metcalf, Mark W; Puzen, Shawn C
Cc: Sevener, Gregory A - DNR
Subject: WDNR comments for High Falls WQ report, 2012

We appreciate timely submittal of the required monitoring data and information and are pleased to see no water quality standard violations in this year's Water Quality Report. In future years, please remember to explain any deviations from license requirements for monitoring or deviations from water quality standards written in the license. Please notify Greg Sevener within 48 hours if deviations from water quality standards are detected during the monitoring period. We look forward to further cooperation on your water quality monitoring and reporting.

Cheryl Laatsch, Water Mgt Specialist,
WDNR, Office of Energy, GEF2, 7th Floor
101 S Webster St Madison WI 53707-7921
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OR

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(920) 485-3028 (Fax)

e-mail: Cheryl.Laatsch@wisconsin.gov
Website: dnr.wi.gov
www.facebook.com/WIDNR

Metcalf, Mark W

From: Sevener, Gregory A - DNR [Gregory.Sevener@wisconsin.gov]
Sent: Wednesday, October 24, 2012 3:13 PM
To: Laatsch, Cheryl - DNR; Metcalf, Mark W; Puzen, Shawn C
Cc: Hudak, Andrew J - DNR; McLennan, Robin - DNR
Subject: RE: WDNR comments for High Falls WQ report, 2012

Hello All,

I would just like to say that my name should be replaced with Andy Hudak for future notifications.

Gregory A. Sevener
WI. DNR Peshtigo Service Center
101 N. Ogden Road Suite A
Peshtigo, WI. 54157
Phone : 715-582-5013
Email: gregory.sevener@wisconsin.gov
Find us at <http://dnr.wi.gov> and www.facebook.com/WIDNR

From: Laatsch, Cheryl - DNR
Sent: Tuesday, October 23, 2012 1:50 PM
To: Metcalf, Mark W (MWMetcalf@integrysgroup.com); Puzen, Shawn C (SCPuzen@integrysgroup.com)
Cc: Sevener, Gregory A - DNR
Subject: WDNR comments for High Falls WQ report, 2012

We appreciate timely submittal of the required monitoring data and information and are pleased to see no water quality standard violations in this year's Water Quality Report. In future years, please remember to explain any deviations from license requirements for monitoring or deviations from water quality standards written in the license. Please notify Greg Sevener within 48 hours if deviations from water quality standards are detected during the monitoring period. We look forward to further cooperation on your water quality monitoring and reporting.

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Metcalf, Mark W

From: Metcalf, Mark W
Sent: Thursday, October 25, 2012 8:40 AM
To: 'Sevener, Gregory A - DNR'; Laatsch, Cheryl - DNR; Puzen, Shawn C
Cc: Hudak, Andrew J - DNR; McLennan, Robin - DNR
Subject: RE: WDNR comments for High Falls WQ report, 2012

Greg - Thank you for the notification.

Cheryl and Andy – Thank you for the response on the 2012 water quality monitoring report. With regards to notification of potential deviations from the water quality standards, the reporting requirement in the water quality monitoring plan is as follows: “When the Energy Supply and Control Desk identifies a period of non-compliance with state standards and the calibration of the instrument is verified, the WDNR will be notified within five working days.”

WPSC will report potential deviations from water quality standards as expeditiously as possible, but within 5 working days of observation of a period of non-compliance as identified in the monitoring plan.

Mark

Mark Metcalf

Environmental Consultant - Air & Water | Integrys Business Support, LLC

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Providing support for Integrys Energy Group, Integrys Energy Services, Integrys Transportation Fuels, Michigan Gas Utilities, Minnesota Energy Resources, North Shore Gas, Peoples Gas, Upper Peninsula Power Company and Wisconsin Public Service.

From: Sevener, Gregory A - DNR [<mailto:Gregory.Sevener@wisconsin.gov>]

Sent: Wednesday, October 24, 2012 3:13 PM

To: Laatsch, Cheryl - DNR; Metcalf, Mark W; Puzen, Shawn C

Cc: Hudak, Andrew J - DNR; McLennan, Robin - DNR

Subject: RE: WDNR comments for High Falls WQ report, 2012

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[Gregory A. Sevener](#)

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From: Laatsch, Cheryl - DNR

Sent: Tuesday, October 23, 2012 1:50 PM

To: Metcalf, Mark W (MWMetcalf@integrysgroup.com); Puzen, Shawn C (SCPuzen@integrysgroup.com)

Cc: Sevener, Gregory A - DNR

Subject: WDNR comments for High Falls WQ report, 2012

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Response to Comments from the Wisconsin Department of Natural Resources on the 2012 High Falls Water Quality Monitoring Report:

Comment: "We appreciate timely submittal of the required monitoring data and information and are pleased to see no water quality standard violations in this year's Water Quality Report. In future years, please remember to explain any deviations from license requirements for monitoring or deviations from water quality standards written in the license. Please notify Greg Sevener within 48 hours if deviations from water quality standards are detected during the monitoring period. We look forward to further cooperation on your water quality monitoring and reporting."

Response: Comment Noted. With regards to notification of potential deviations from the water quality standards, the reporting requirement in the water quality monitoring plan is as follows: "When the Energy Supply and Control Desk identifies a period of non-compliance with state standards and the calibration of the instrument is verified, the WDNR will be notified within five working days." WPSC will report potential deviations from water quality standards as expeditiously as possible, but within 5 working days of observation of a period of non-compliance as identified in the monitoring plan.

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