

ORIGINAL



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June 14, 2005

The Secretary
Federal Energy Regulatory Commission
Mail Code: DHAC, PJ-12
888 First Street, N.E.
Washington, D.C. 20426

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OFFICE OF THE
SECRETARY
2005 JUN 16 P 2:22
FEDERAL ENERGY
REGULATORY COMMISSION

RE: **2004 Water Quality Monitoring Data Final Report**

Oconto Falls (Lower) Hydroelectric Project (FERC #2689) – 030

Dear Secretary;

Enclosed are the Final Report copies of the 2004 Water Quality Monitoring data compiled from impoundment and tailwater sampling performed during July 1 through September 30 of 2004 for the two Projects listed above. These reports were originally sent to the FERC Chicago Regional Office earlier this year in error.

Draft copies of these reports were sent to Mr. Larry Thompson - Staff Biologist, U.S. Fish and Wildlife Service and Mr. Jim Reyburn - Water Quality Biologist, Wisconsin Department of Natural Resources on January 7, 2005 for solicited review per the approved Article 405 Water Quality Monitoring Plan for Oconto Falls (Upper) Hydroelectric Project (FERC #2523) and approved Article 404 Water Quality Monitoring Plan for Oconto Falls (Lower) Hydroelectric Project (FERC #2689).

We have incorporated Mr. Reyburn's single comment request by adding into each report an aerial photo location map indicating the sampling locations of both studies.

No comments were received from Mr. Thompson for either of these report's draft copies.

If you have any questions regarding these reports, please feel free to contact me or Mr. Scott Klabunde at 920-293-4628.

Sincerely yours,
NORTH AMERICAN HYDRO, INC.

Charles Alsberg
FDR

Charles Alsberg
Executive Vice President

Enclosures: As indicated

Final Report
2004 Water Quality Monitoring Data
for the
Oconto Falls (Lower) Hydroelectric Project
FERC Project #2689
N.E.W. Hydro, Inc.
Oconto River, Oconto County, Wisconsin

Respectfully Submitted by:
North American Hydro Holdings, Inc.
116 North State Street
Neshkoro, Wisconsin 54960

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Summary

2004 marked the second session of water quality sampling under the FERC approved "Water Quality Monitoring Plan Per License Article 404 for the Oconto Falls (Lower) Hydroelectric Project – FERC Project # 2689 – N.E.W. Hydro, Inc."

FERC License Article 404 water quality sampling at the Oconto Falls (Lower) Hydroelectric Project is performed concurrently with nearly identical water quality sampling requirements at the Oconto Falls (Upper) Hydroelectric Project (FERC Project # 2523), which is located approximately 2000 feet upstream from the Oconto Falls (Lower) Hydroelectric Project. Sampling is performed once every 5 years for the duration of the FERC License.

Upstream (Impoundment) sampling consists of weekly vertical sampling of dissolved oxygen and temperature at 1-meter intervals from a fixed location representative of the maximum depth in the impoundment. Downstream sampling consists of in-situ sampling for dissolved oxygen (D.O.), pH, specific conductivity and temperature, logged once every 15-minutes throughout the duration of the study at a fixed location in the Project's tailrace.

The upstream sampling site, established for the 1999 water quality study session, is located at the end of the southernmost upstream pier of the powerhouse's unused #2 intake bay with a depth of approximately 3.6 meters. The downstream sampling site, established during a 1989 Wisconsin Department of Natural Resources water study, is located approximately midstream of the southern branch of the tailrace, north of the Oconto Falls water treatment office.

Impoundment sampling conducted at roughly one week intervals resulted in 14 sampling events including the June 30 data. A calibrated YSI Model 51B portable D.O. meter and a 50 foot cabled 5739 probe with standard membrane was used for all D.O. sampling. No unusual measurements were observed during the 3-month period and the minimum D.O. measurement recorded during the 3-month sampling session was 6.10 mg/L at 100 mm above the bottom of the impoundment on July 29, 2004.

During the course of the 3-month sampling period, sensors of the tailrace Datasonde 3 sample logger unit were cleaned and verified for calibration accuracy on a weekly basis during each day impoundment sampling was performed. Additionally, the YSI Model 51B D.O. meter and 50 foot cabled 5739 probe with standard membrane used for impoundment sampling was used to cross-check D.O. calibration continuity with the Datasonde 3 D.O. sensor. The unit's internal batteries were replaced once in mid-August to ensure proper power supply levels through the conclusion of the sampling period. One logging interruption occurred at 19:30 hours on August 15, 2004 when a person or persons unknown removed the Datasonde 3 datalogger from the river. Oconto Falls Water Department personnel contacted North American Hydro Holdings, Inc. in the early afternoon on August 16 to report that they had found the datalogger next to the office building. Water Department personnel were asked to place the datalogger back into the

river near the shoreline in order to prevent the sensors from drying out. North American Hydro Holdings Inc. personnel were dispatched to Oconto Falls to reinstall or replace the Datasonde 3 in the tailwater channel. The original datalogger was undamaged, remained within calibration limits when tested and reinstalled in the tailrace channel. Logging resumed at 18:30 on August 16, 2004. Logged data was downloaded weekly and monthly. No unusual readings were observed in collected data during the 3-month sampling session. Table 2 displays the minimum, maximum and average sensor readings for each of the three months' logged data. Precise dates and times are available in the accompanying appendices.

TABLE 2
Oconto Falls (Upper) Hydroelectric Project
Tailwater Sampling Monthly Minimums, Maximums and Averages

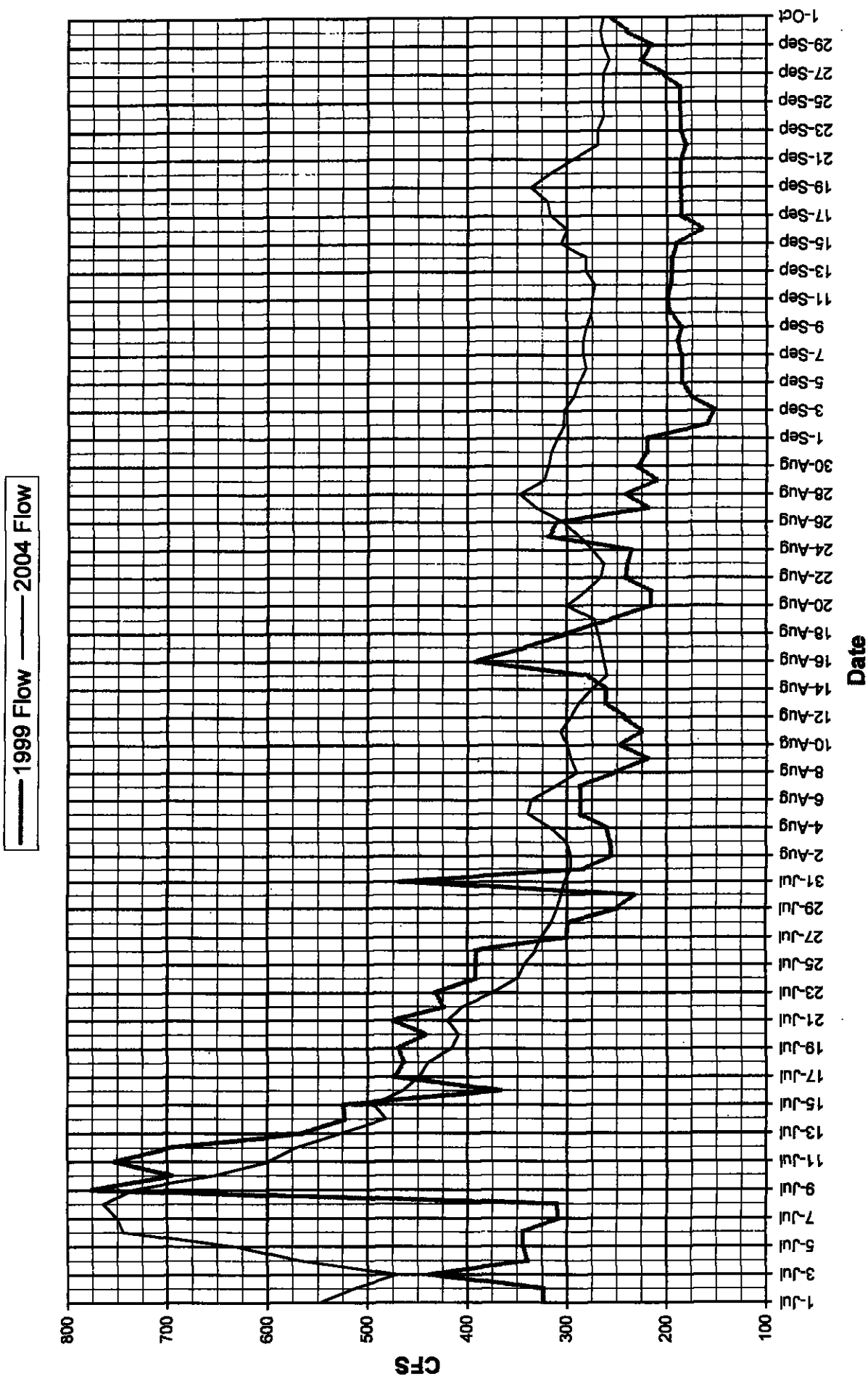
July 2004	Temperature (°C)	pH	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)
Minimum	16.5	7.70	0.284	6.14
Maximum	24.9	8.24	0.342	8.90
Average	21.4	7.94	0.313	7.71
August 2004	Temperature (°C)	pH	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)
Minimum	17.4	8.03	0.332	6.27
Maximum	23.9	8.58	0.349	9.50
Average	20.2	8.30	0.340	8.00
September 2004	Temperature (°C)	pH	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)
Minimum	15.1	8.26	0.316	6.03
Maximum	22.6	8.80	0.349	9.00
Average	19.3	8.45	0.342	7.93

Monthly Temperature and Precipitation for Green Bay, Wisconsin

Month (water year)	Highest Temperature (°F)		Lowest Temperature (°F)		Average Temperature (°F)		Departure From Normal (°F)		Heating Degree Days		Normal Degree Days		Total Precipitation (inches)		Total Snowfall (inches)		Normal Precipitation (inches)		% of Normal Precipitation	
	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004	1999	2004
October	75	80	26	24	50.9	48.0	3.5	0.6	431	522	540	540	1.56	1.05	0.0	0.0	2.17	2.17	72	48
November	63	62	18	11	39.4	36.0	5.4	2.0	760	862	925	925	1.67	3.85	0.3	0.4	2.27	2.27	74	170
December	62	46	-9	3	27.4	28.0	6.2	6.8	1160	1140	1350	1350	0.30	1.68	5.6	2.5	1.41	1.41	21	119
January	42	39	-19	-14	14.8	12.2	-0.8	-3.4	1547	1631	1537	1537	2.37	1.24	20.3	16.3	1.21	1.21	196	102
February	58	50	11	-13	28.3	21.5	7.8	0.9	1022	1254	1262	1302	1.08	1.62	2.2	16.6	1.01	1.06	107	153
March	73	63	8	12	34.0	35.1	2.7	3.8	954	915	1060	1060	0.15	3.58	4.4	8.4	2.06	2.06	7	174
April	77	79	26	24	45.8	45.4	1.6	1.2	569	579	638	638	2.11	1.56	0.0	0.7	2.56	2.56	82	61
May	86	83	34	27	58.0	53.6	1.6	-2.8	223	355	301	301	3.77	8.31	0.0	0.0	2.75	2.75	137	302
June	88	88	39	42	65.4	63.3	0.0	-2.1	101	97	85	85	3.98	4.87	0.0	0.0	3.43	3.43	116	142
July	96	87	48	45	72.2	67.6	2.3	-2.3	5	30	19	19	5.73	1.78	0.0	0.0	3.44	3.44	167	52
August	87	85	44	39	65.5	64.3	-2.1	-3.3	46	89	38	38	1.32	2.00	0.0	0.0	3.77	3.77	35	53
September	90	85	31	31	58.6	64.6	-0.2	5.8	226	82	208	208	1.24	0.47	0.0	0.0	3.11	3.11	40	15

Source: NOAA

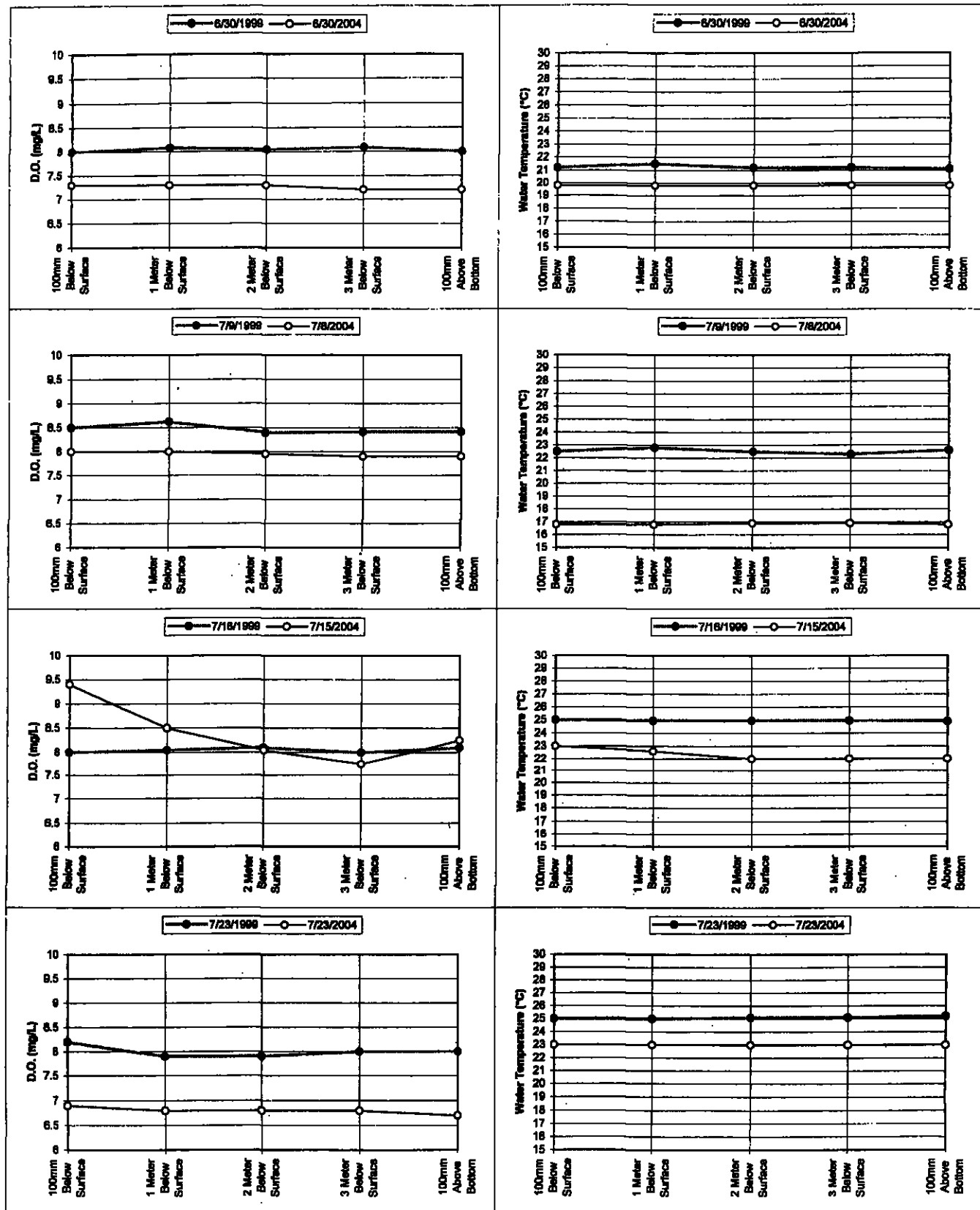
2004 Water Quality Study
Daily River Flow Through Project
Oconto Falls (Lower) - FERC Project No. 2689



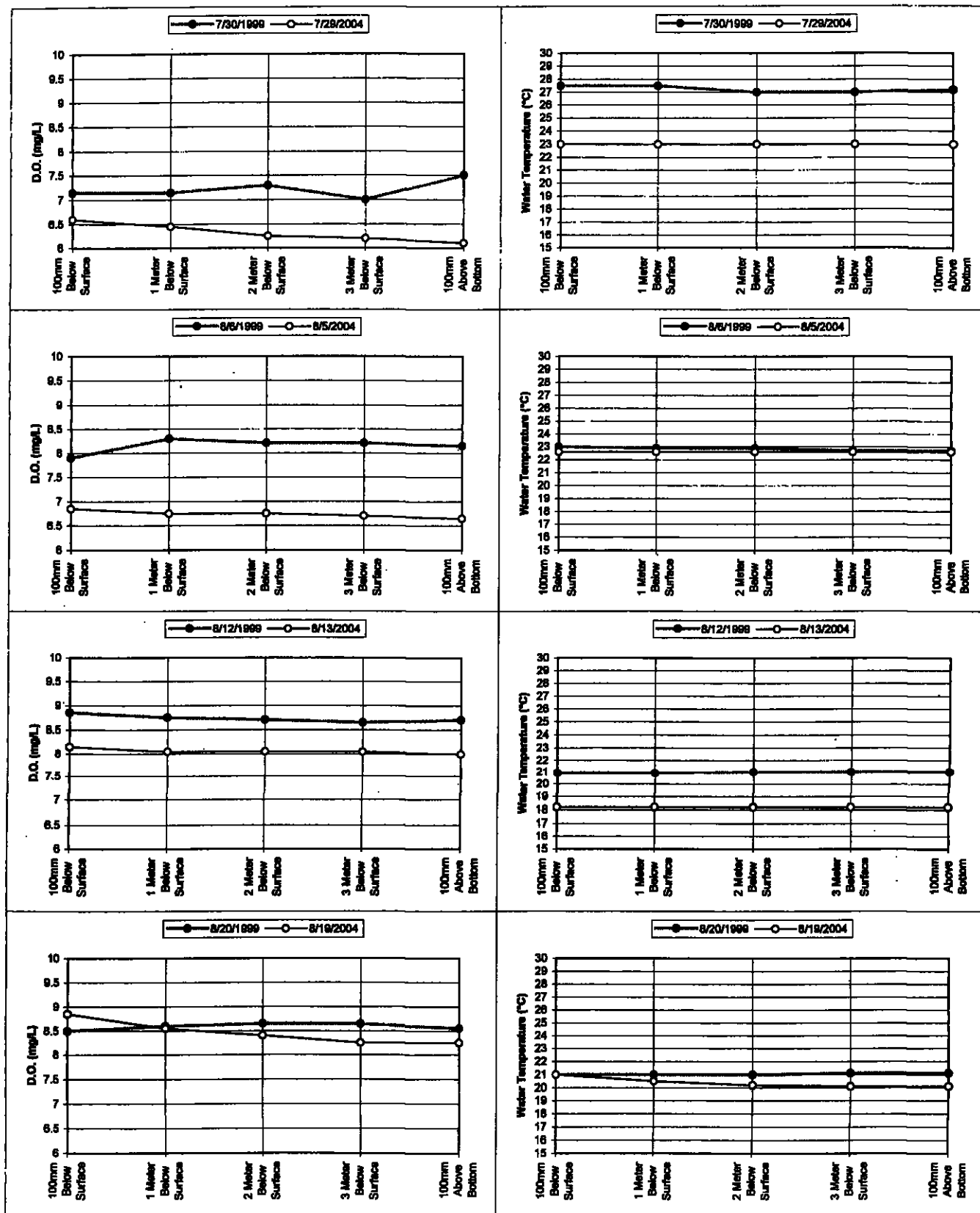
1999 Water Quality Study Reservoir Sampling Data for 3-month Sampling Period Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689							
Date	Sample	100mm Below Surface	1 Meter Below Surface	2 Meter Below Surface	3 Meter Below Surface	100mm Above Bottom	Hach Sample
6/30/1999	D.O. (mg/l)	8	8.08	8.05	8.09	8	8 - 9
	Temp.	21.2	21.5	21.2	21.2	21.1	21.1
7/9/1999	D.O. (mg/l)	8.5	8.62	8.39	8.41	8.41	8 - 9
	Temp.	22.5	22.8	22.5	22.3	22.6	22.5
7/16/1999	D.O. (mg/l)	8	8.05	8.1	8	8.1	8 - 9
	Temp.	25	24.95	24.95	24.95	24.9	25
7/23/1999	D.O. (mg/l)	8.2	7.9	7.9	8	8	8 - 9
	Temp.	25	25	25.1	25.1	25.2	25.1
7/30/1999	D.O. (mg/l)	7.15	7.15	7.3	7	7.5	7 - 8
	Temp.	27.5	27.5	27	27	27.2	27.4
8/6/1999	D.O. (mg/l)	7.9	8.3	8.21	8.21	8.15	8
	Temp.	23	22.9	22.9	22.7	22.7	23.0
8/12/1999	D.O. (mg/l)	8.85	8.75	8.7	8.65	8.7	8-9
	Temp.	20.9	20.9	21	21	21	21.0
8/20/1999	D.O. (mg/l)	8.5	8.6	8.65	8.65	8.55	8 - 9
	Temp.	21	21	21	21.1	21.1	21.0
8/27/1999	D.O. (mg/l)	8.5	8.25	8.2	8.2	8.35	8 - 9
	Temp.	23.5	23.5	23.5	23.6	23.7	23.5
9/3/1999	D.O. (mg/l)	8.2	8.28	8.25	8.3	8.2	8
	Temp.	22.5	22.1	22.1	22.2	22.1	22.5
9/9/1999	D.O. (mg/l)	8.45	8.75	8.61	8.6	8.6	8-9
	Temp.	21.1	21.2	21.3	21.3	21.3	21.1
9/17/1999	D.O. (mg/l)	9.5	9.6	9.6	9.5	9.5	9-10
	Temp.	16.8	16.2	16	16	16	16.5
9/23/1999	D.O. (mg/l)	10	9.8	9.65	9.75	9.65	9-10
	Temp.	15.9	15.2	15.2	15.1	15.2	15.8

2004 Water Quality Study Reservoir Sampling Data for 3-month Sampling Period Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689							
Date	Sample	100mm Below Surface	1 Meter Below Surface	2 Meter Below Surface	3 Meter Below Surface	100mm Above Bottom	Hach Sample
6/30/2004	D.O. (mg/l)	7.30	7.30	7.30	7.20	7.20	7
	Temp.	19.8	19.8	19.8	19.8	19.8	19.9
7/8/2004	D.O. (mg/l)	8.00	8.00	7.95	7.90	7.90	8
	Temp.	16.8	16.8	16.9	16.9	16.8	16.9
7/15/2004	D.O. (mg/l)	9.40	8.50	8.05	7.75	8.25	9 - 10
	Temp.	23.0	22.6	22.0	22.0	22.0	23.0
7/23/2004	D.O. (mg/l)	6.90	6.80	6.80	6.80	6.70	7
	Temp.	23.0	23.0	23.0	23.0	23.0	23.1
7/29/2004	D.O. (mg/l)	6.60	6.45	6.25	6.20	6.10	6 - 7
	Temp.	23.0	23.0	23.0	23.0	23.0	23.0
8/5/2004	D.O. (mg/l)	6.85	6.75	6.75	6.70	6.65	6 - 7
	Temp.	22.6	22.6	22.6	22.6	22.6	22.5
8/13/2004	D.O. (mg/l)	8.15	8.05	8.05	8.05	8.00	8
	Temp.	18.2	18.2	18.2	18.2	18.2	18.2
8/19/2004	D.O. (mg/l)	8.85	8.55	8.40	8.25	8.25	8 - 9
	Temp.	21.0	20.5	20.2	20.1	20.1	21.1
8/28/2004	D.O. (mg/l)	8.65	8.35	8.30	8.15	8.15	8 - 9
	Temp.	20.0	19.5	19.5	19.2	19.0	20.1
9/1/2004	D.O. (mg/l)	8.45	8.35	8.30	8.20	8.20	8 - 9
	Temp.	18.9	18.8	18.7	18.7	18.7	19.0
9/10/2004	D.O. (mg/l)	8.10	7.15	7.15	7.10	7.00	8
	Temp.	21.0	20.0	19.9	19.9	19.9	21.1
9/16/2004	D.O. (mg/l)	7.90	7.70	7.70	7.60	7.50	7 - 8
	Temp.	21.1	21.0	21.0	21.0	21.0	21.3
9/21/2004	D.O. (mg/l)	9.10	8.60	8.55	8.45	8.45	9
	Temp.	20.0	19.4	19.2	19.2	19.2	20.2
9/27/2004	D.O. (mg/l)	8.70	8.30	8.20	8.05	7.95	8 - 9
	Temp.	19.5	18.6	18.4	18.3	18.3	19.7

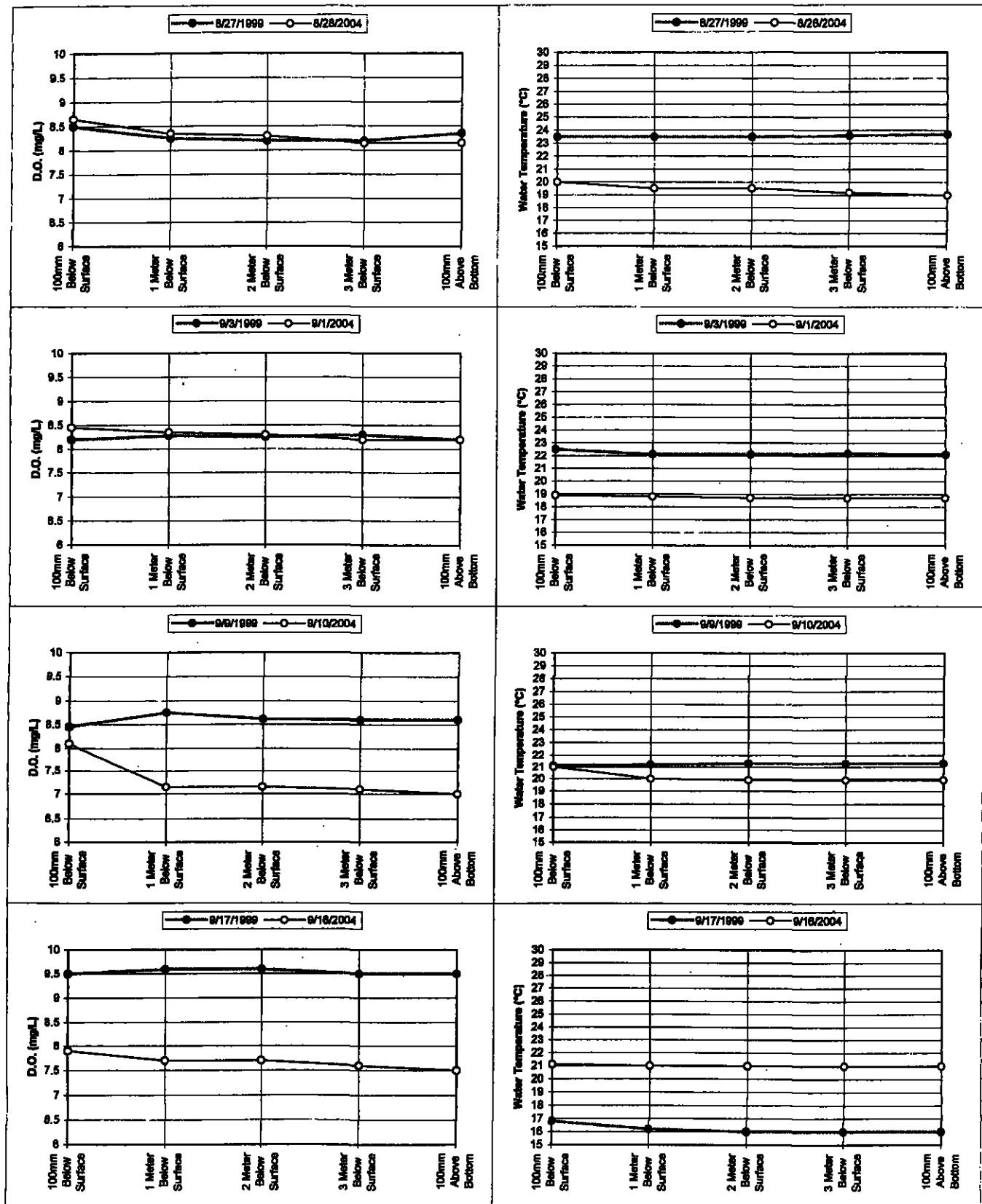
2004 Water Quality Study Reservoir Sampling Oconto Falls (Lower) Hydroelectric Project - FERC # 2689



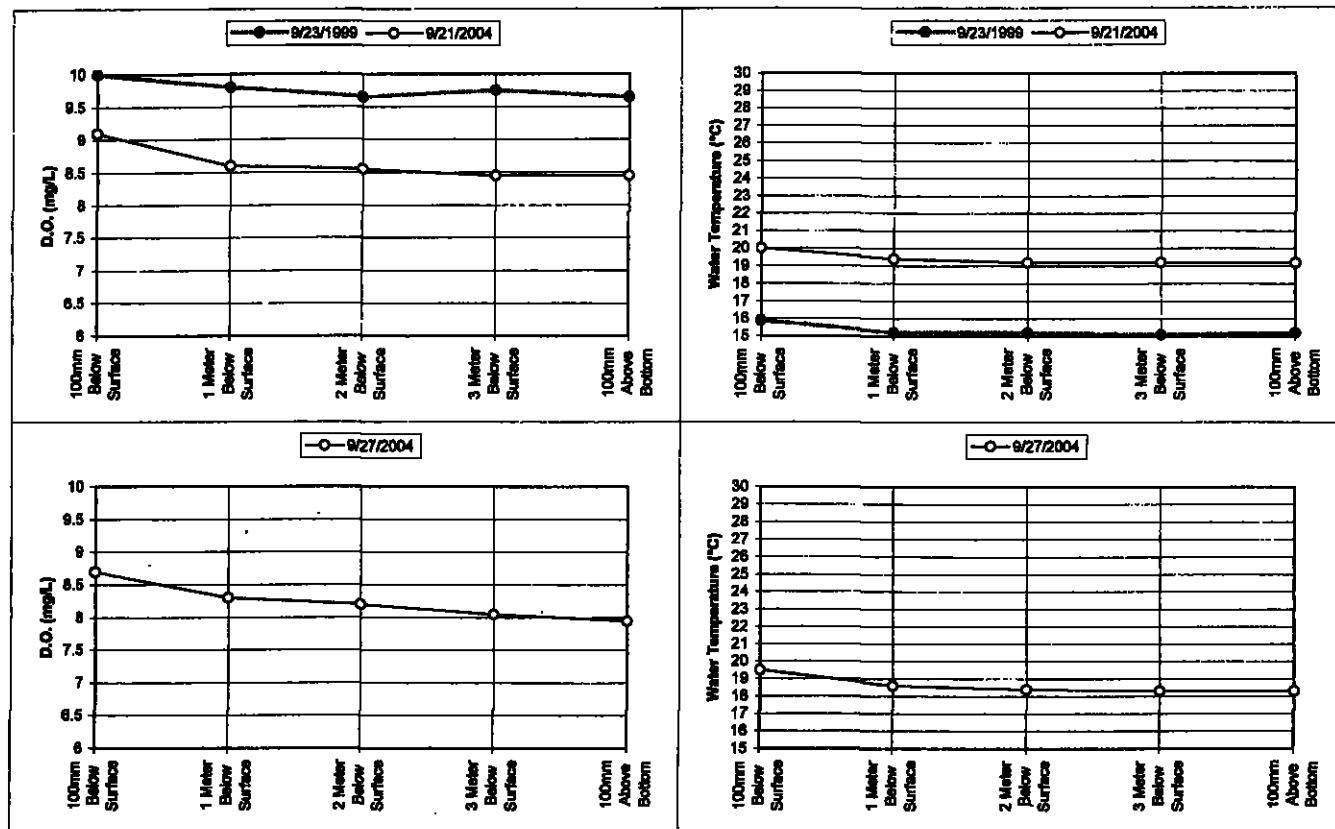
2004 Water Quality Study Reservoir Sampling Oconto Falls (Lower) Hydroelectric Project - FERC # 2689



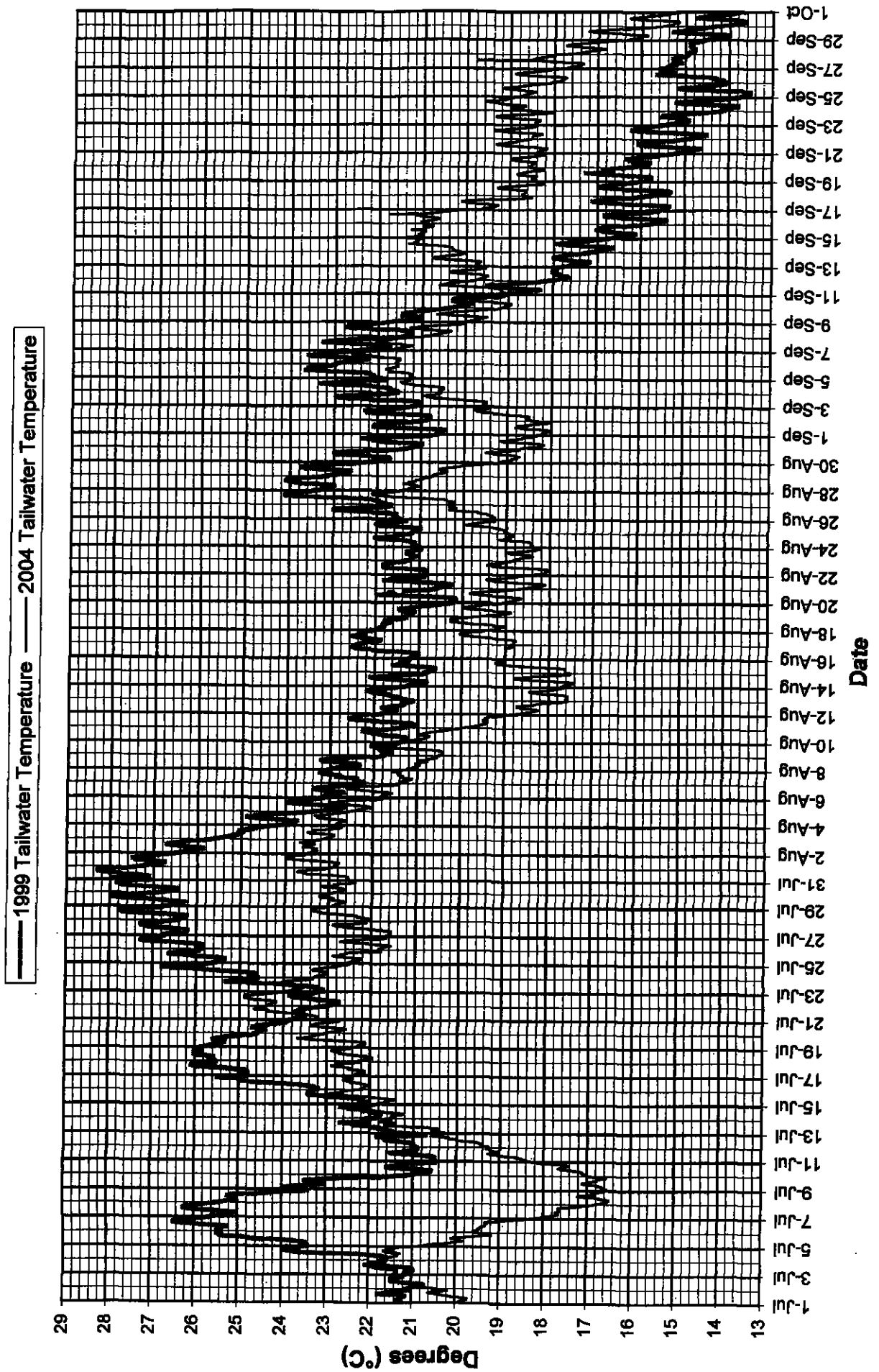
2004 Water Quality Study Reservoir Sampling Oconto Falls (Lower) Hydroelectric Project - FERC # 2689



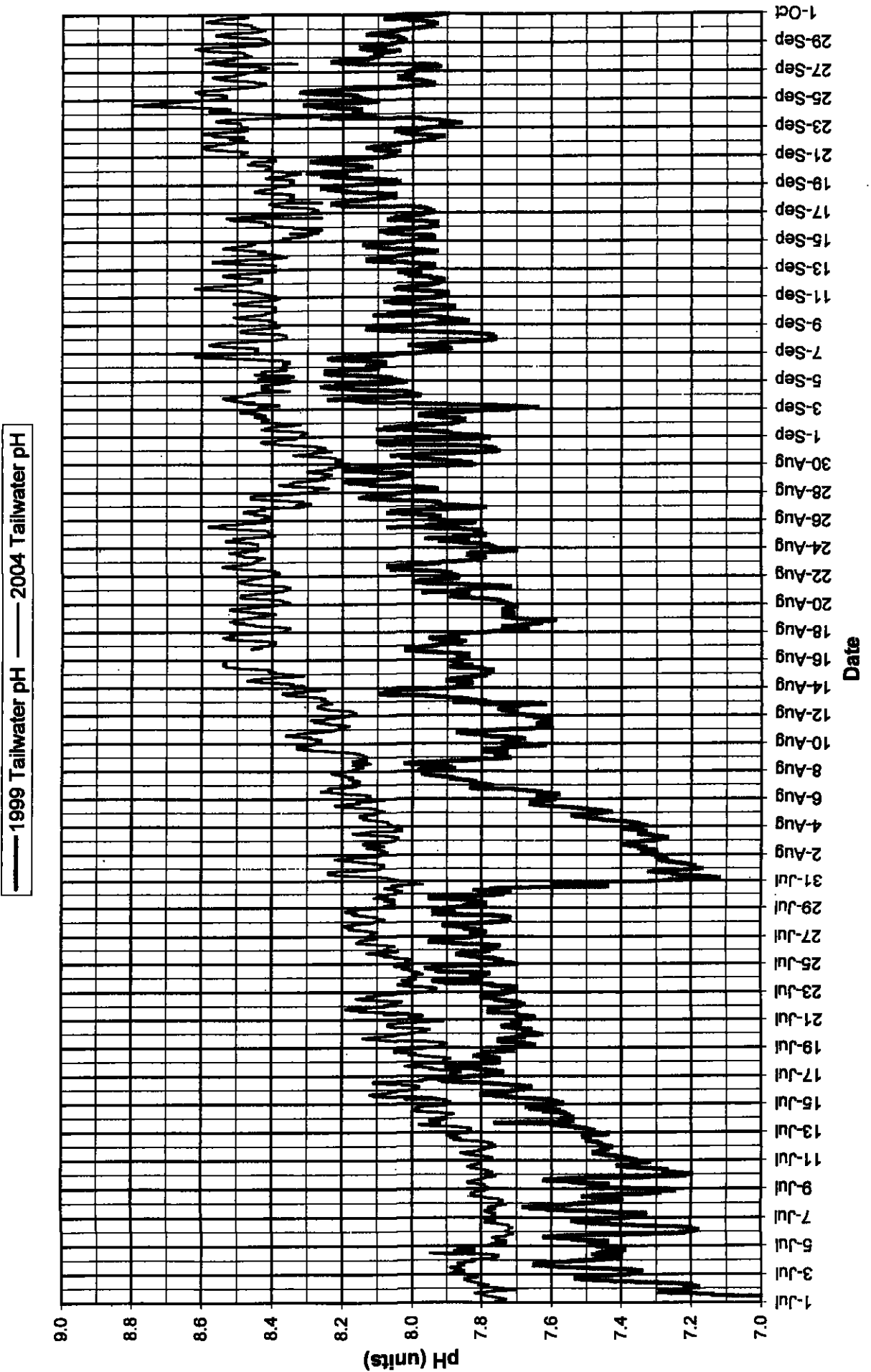
2004 Water Quality Study Reservoir Sampling Oconto Falls (Lower) Hydroelectric Project - FERC # 2689



2004 Water Quality Study Tailwater Temperature Sampling Comparison Oconto Falls (Lower) - FERC Project No. 2689

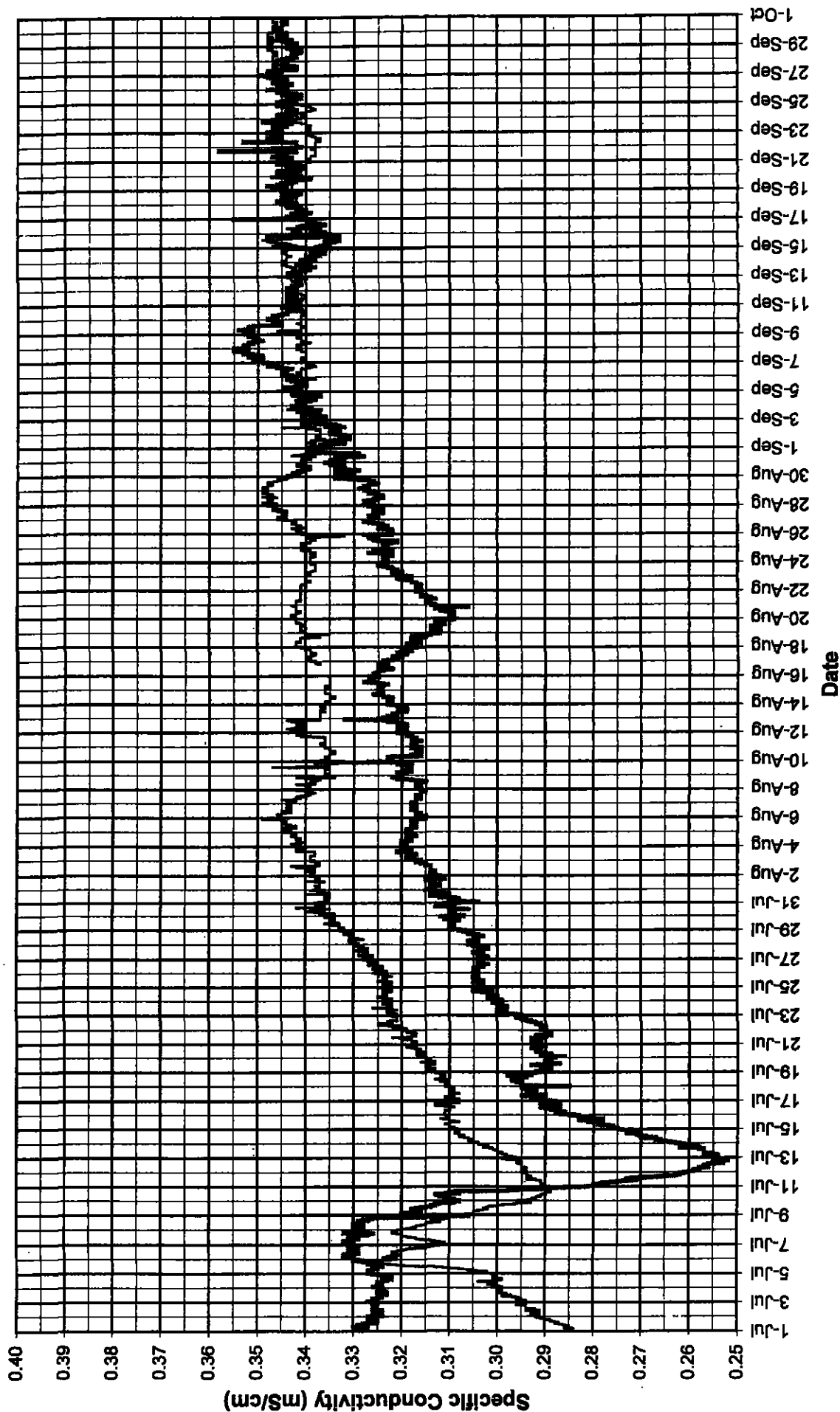


2004 Water Quality Study Tailwater pH Sampling Comparison Oconto Falls (Lower) - FERC Project No. 2689

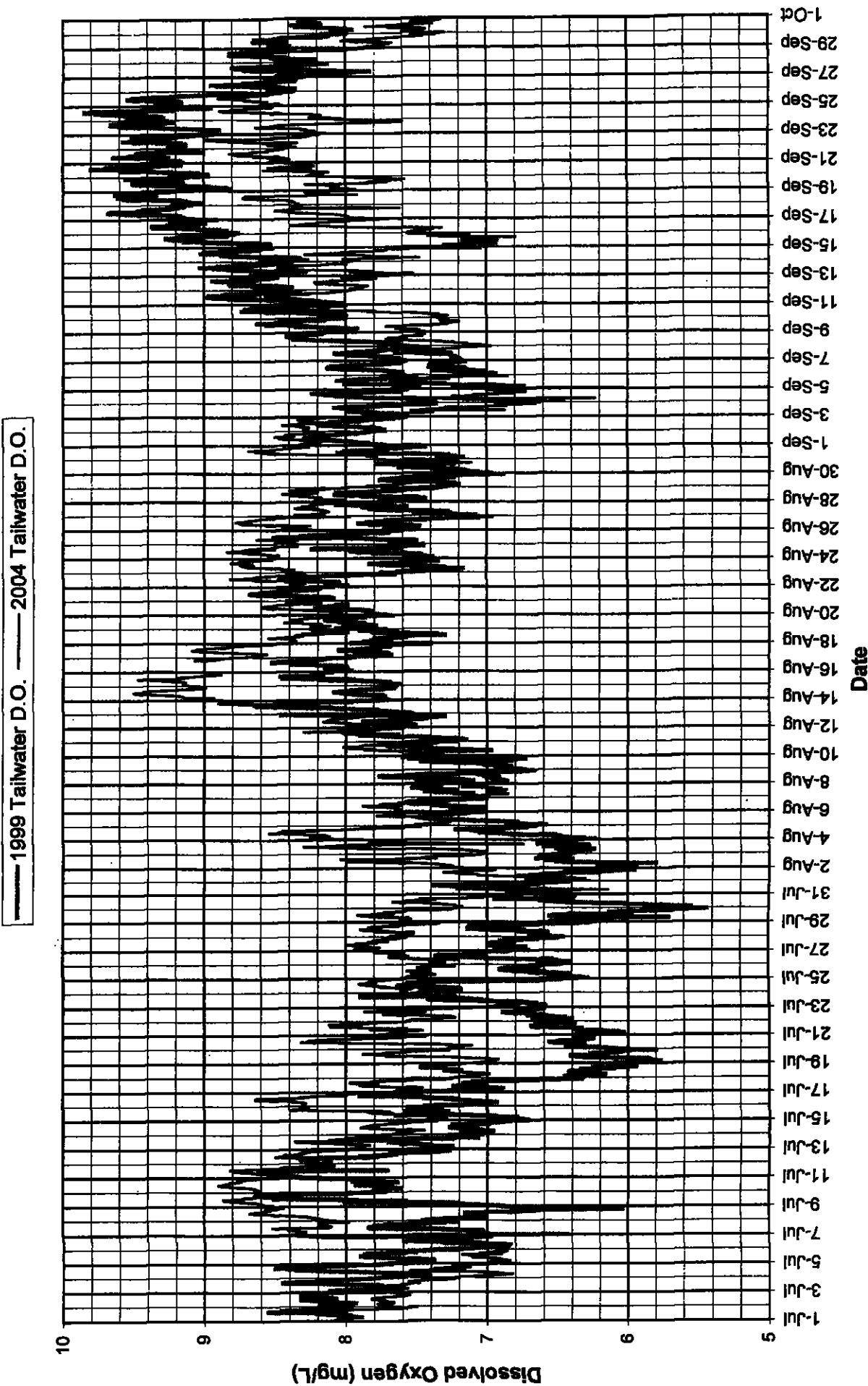


2004 Water Quality Study Tailwater Specific Conductivity Sampling Comparison Oconto Falls (Lower) - FERC Project No. 2689

—— 1999 Tailwater Specific Conductivity —— 2004 Tailwater Specific Conductivity



2004 Water Quality Study Tailwater Dissolved Oxygen Sampling (mg/l) Comparison Oconto Falls (Lower) - FERC Project No. 2689



**Water Quality Monitoring Plan
Per License Article 404**

for the

**Oconto Falls (Lower) Hydroelectric Project
FERC Project # 2689
N.E.W. Hydro, Inc.**

Oconto River, Oconto County, Wisconsin

Requirement for Studies

The Federal Energy Regulatory Commission (FERC), has stipulated as a requirement of the Oconto Falls (Lower) Hydroelectric Project License (Article 404), issued May 11, 1994, that a Water Quality Study shall be performed beginning five (5) years after license issuance and once every five (5) years thereafter for the thirty (30) year term of license. Article 404 also requires that a monitoring plan should be filed with the Commission within four (4) years of license issuance.

Purpose of Studies

The license states that "the purpose of the monitoring plan is to ensure that streamflows downstream of the Oconto Falls Project, as measured immediately downstream of the project tailrace, maintain the state minimum DO concentration standard of 5.0 milligrams per liter, a maximum water temperature of 89°F, and a pH between 6.0 and 9.0 units in the Oconto River at the same locations as the DO monitoring".

Study Sampling Periods

Study sampling will be conducted July 1, 1999 through September 30, 1999 and every 5th year interval thereafter for the term of the license. The July through September sampling period represents the typical annual period of minimum dissolved oxygen levels in the Oconto River resulting from a combination of high ambient temperature, low river flow, and aerobic oxygen consumptive processes.

Study Design

Sampling Protocol

Sampling protocol will be consistent with the 1990 pre-licensing Water Quality Study data collection protocol as outlined in the June 23, 1993 letter from Mr. Al Stranz, WDNR to Ms. Lois Cashell, Secretary, FERC - Page 7, Section 8(d).

Monitoring Parameters (Reservoir):

1. Dissolved Oxygen Concentration
2. Water Temperature
3. Stream Flow
4. Time of Day

Monitoring Parameters (Tailwater):

1. Dissolved Oxygen Concentration
2. Water Temperature
3. pH
4. Stream Flow
5. Time of Day

Reservoir Sampling:

One (1) reservoir sampling event per week will be conducted for dissolved oxygen concentration and water temperature in a surface to bottom profile at one (1) meter intervals at one (1) pre-determined location representing the maximum depth in the reservoir.

Sampling will be performed manually from a boat with position determined by two (2) measured lines attached to marked locations on opposing embankments and/or structures to provide location repeatability for each of the weekly samplings. Reservoir surface to bottom depth will be recorded during each sampling period at the pre-determined sampling location. Dissolved oxygen concentration and water temperature will be sampled with an approved and properly calibrated electronic sampling device at one (1) meter depth profile intervals including a reading at 100mm below the surface and 100mm above the bottom of the reservoir. Power production log data for the sampling day will be obtained from the Oconto Falls (Upper) Hydroelectric Project (FERC Project # 2523) and Oconto Falls (Lower) Hydroelectric Project (FERC Project # 2689) in order to calculate river flow volume during the sample day.

Tailwater Sampling:

Continuous thirty (30) minute interval sampling of dissolved oxygen concentration, pH, and water temperature will be taken in the river immediately below the project tailrace.

Sampling will be performed by an approved and properly calibrated self-contained submersible sampling and data-logging device placed in a location representative of the release of water in the tailrace. The monitoring device will be located downstream of the dam, approximately ten (10) feet from the south embankment of the Oconto River at a point approximately twenty (20) feet upstream of the Oconto Falls Municipal Sewage Treatment Facility discharge pipe. (This location represents the placement location selected by Laura J. Herman, WDNR Water Quality Specialist, for the Hydrolab DataSonde 1 deployment used in the 1990 pre-licensing Water Quality Study.) The sampling/logging device will include a sensor array containing standard dissolved oxygen, pH, and water temperature sampling probes. The logging device will be programmed to record dissolved oxygen concentration, pH, and water temperature measurements at thirty (30) minute intervals for the continuous period from July 1 through September 30. A maintenance check will be performed on the sampling/logging device once per week. This check will include removal of any accumulated debris and aquaculture, verification of device placement, verification of operation and device calibration. Maintenance procedures are based on the use of presently available equipment. Future maintenance activities could differ due to changes in equipment development. Power production log data for the sampling period will be obtained from the Oconto Falls (Upper) Hydroelectric Project (FERC # 2523) and Oconto Falls (Lower) Hydroelectric Project (FERC # 2689) in order to calculate river flow volume during the sampling period. Accumulated sampling data will be downloaded from the sampling/logging device once per month (during the first week of the following month) for intermediate analysis.

OCONTO FALLS WATER QUALITY MONITORING STUDIES

Sampling Locations



APPENDIX A

July 2004 Sampling Data

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: JUNE 30, 2004

Pre-Sampling Data:

Time: 3:20pm Barometer: 29.98 Air Temp: 28.3 °C Wind Speed: FRM SW @ 10-15

Cloud Cover: 5% CLOUDS

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.36 volts

YSI Calibration Time: 3:40pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.58 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	3:45 pm	7.30	19.8
1 meter	3:46 pm	7.30	19.8
2 meter	3:47 pm	7.30	19.8
3 meter	3:49 pm	7.20	19.8
100 mm above bottom	3:50 pm	7.20	19.8

Hach D.O. Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	4:00pm	7	19.9

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Cluff

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: July 8, 2004

Pre-Sampling Data:

Time: 3:00 pm Barometer: 29.97 Air Temp: 18.3 °C Wind Speed: From NNW @ 6

Cloud Cover: Mostly Cloudy

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.35 volts

YSI Calibration Time: 3:15 pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.57 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	3:25 pm	8.00	16.8
1 meter	3:26 pm	8.00	16.8
2 meter	3:27 pm	7.95	16.9
3 meter	3:28 pm	7.90	16.9
100 mm above bottom	3:30 pm	7.90	16.8

Hach D.O. Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	3:40 pm	8	16.9

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Dwyer

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: July 15, 2004

Pre-Sampling Data:

Time: 5:30 pm Barometer: 29.83 Air Temp: 28.3 °C Wind Speed: From NW @ 7

Cloud Cover: MOSTLY CLOUDY

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.35 volts

YSI Calibration Time: 5:45 pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.58 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	5:54 pm	9.40	23.0
1 meter	5:55 pm	8.50	22.6
2 meter	5:57 pm	8.05	22.0
3 meter	5:58 pm	7.75	22.0
100 mm above bottom	6:00 pm	8.25	22.0

Hach D.O. Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	6:05 pm	9.10	23.0

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Tom R. Dwyer

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: July 23, 2004

Pre-Sampling Data:

Time: 6:30 pm Barometer: 30.19 Air Temp: 22.5 °C Wind Speed: FM WSW @ 5-7

Cloud Cover: 20% clouds

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.34 volts

YSI Calibration Time: 6:35 pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.60 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	6:45 pm	6.90	23.0
1 meter	6:47 pm	6.80	23.0
2 meter	6:49 pm	6.80	23.0
3 meter	6:50 pm	6.80	23.0
100 mm above bottom	6:52 pm	6.70	23.0

Hach D.O. Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	6:57	7	23.1

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Guffler

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: JULY 29, 2004

Pre-Sampling Data:

Time: 8:40 pm Barometer: 29.88 Air Temp: 22.1 °C Wind Speed: FRM S @ 3-5

Cloud Cover: CLEAR WITH LIGHT HAZE

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.33 volts

YSI Calibration Time: 8:46 pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.58 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	8:50 pm	6.60	23.0
1 meter	8:52 pm	6.45	23.0
2 meter	8:54 pm	6.25	23.0
3 meter	8:56 pm	6.20	23.0
100 mm above bottom	8:58 pm	6.10	23.0

Hach D.O. Sample Data

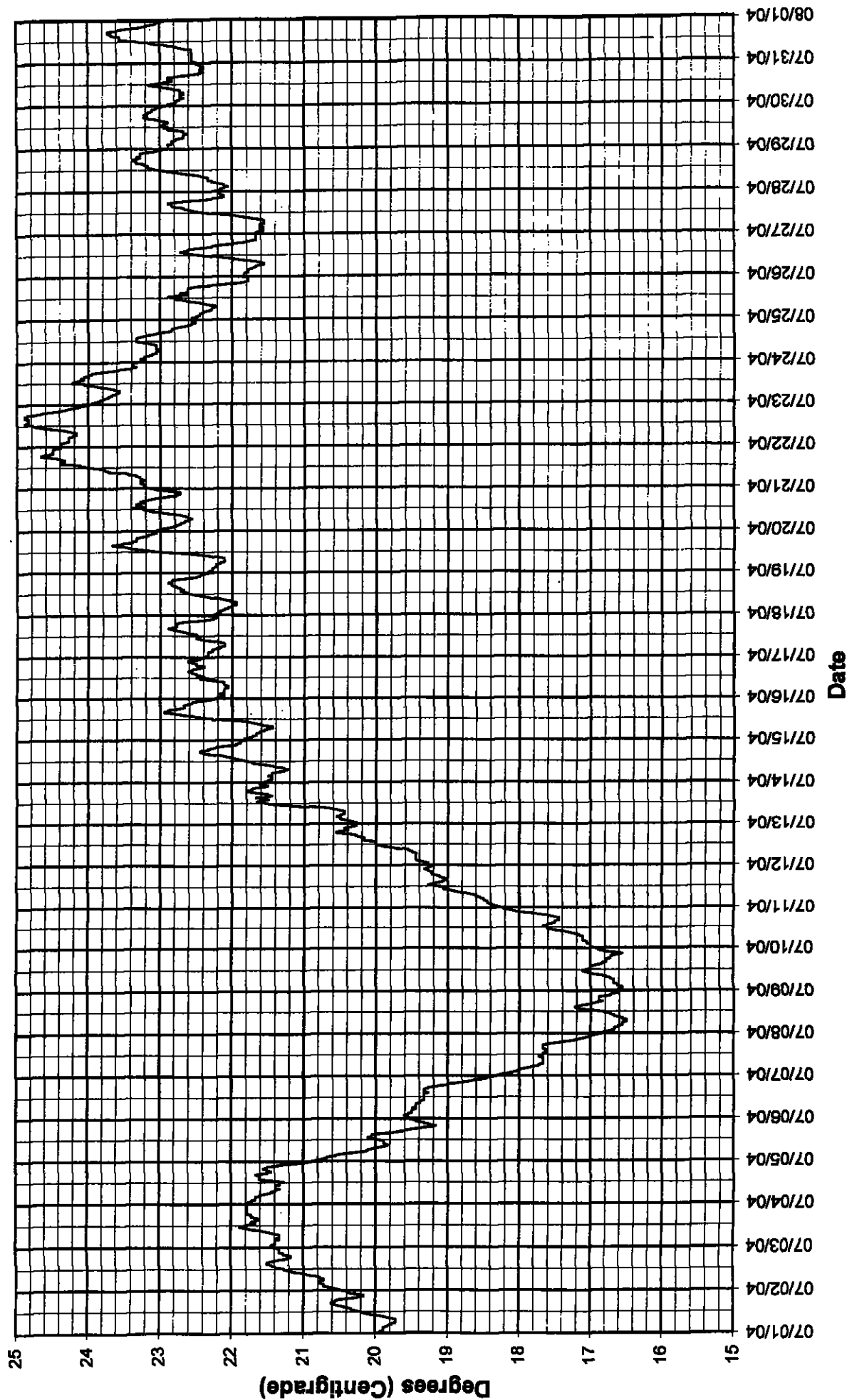
Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	9:05 pm	6-7	23.0

Comments: _____

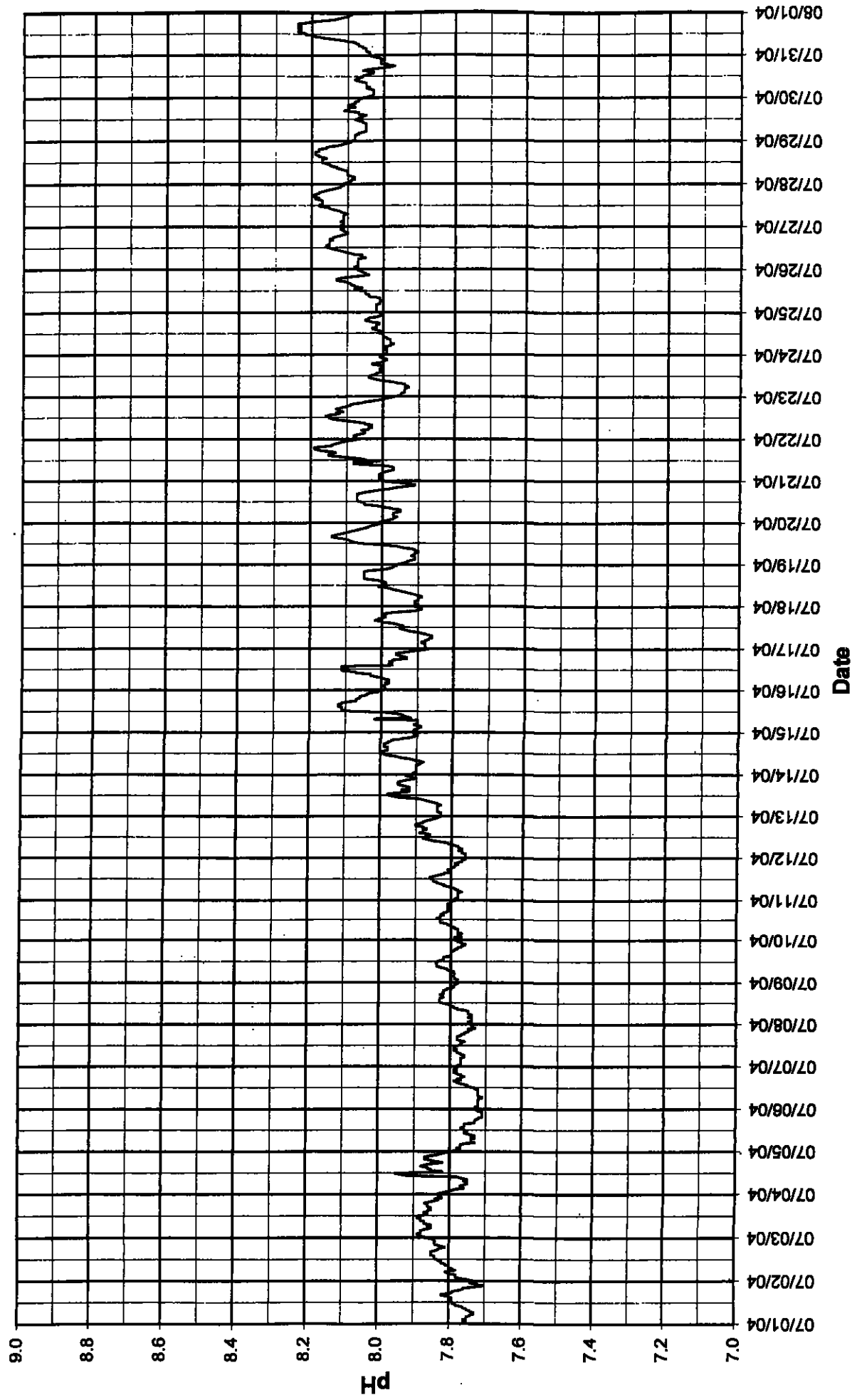
Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Sam R. Giffle

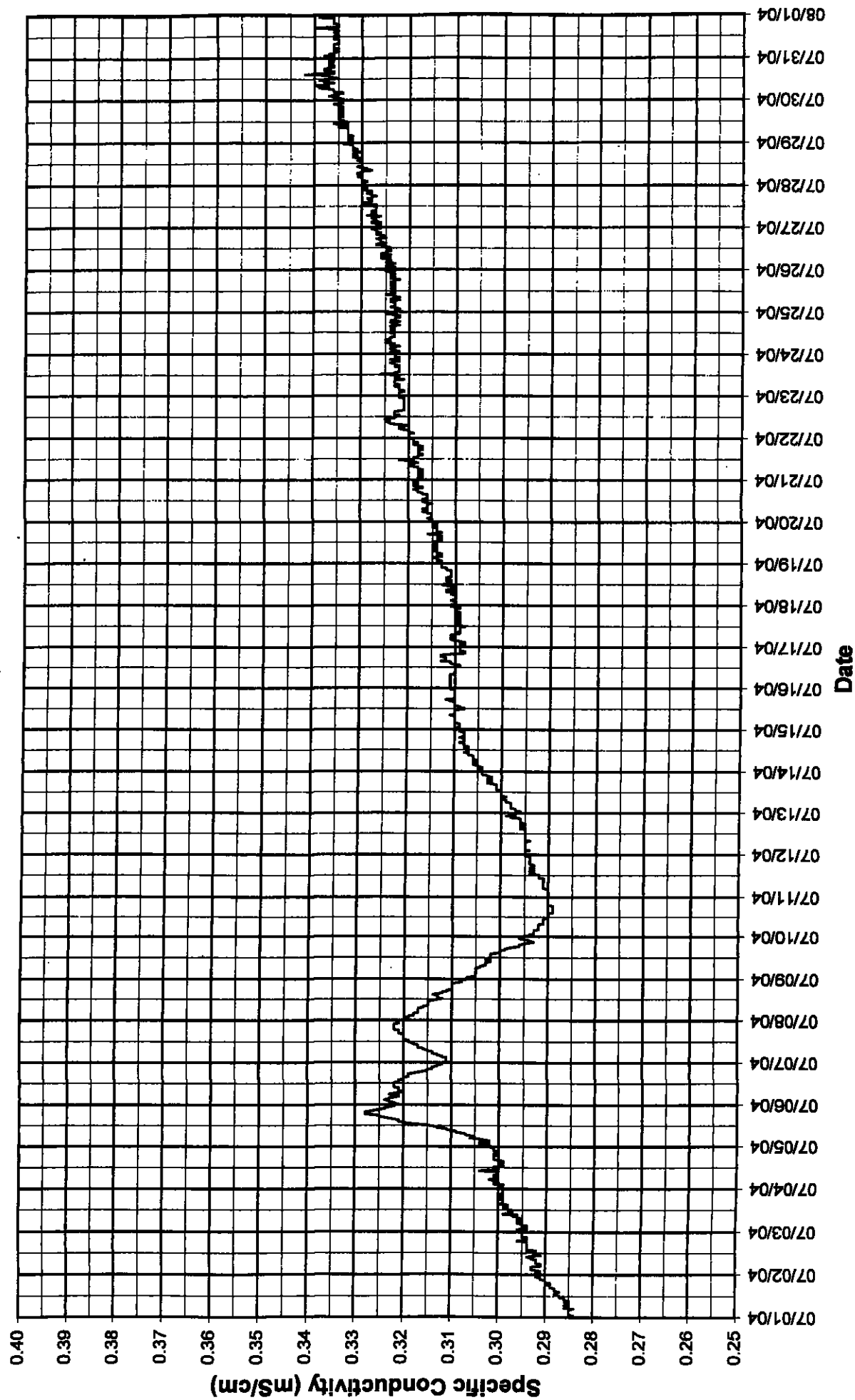
**2004 Water Quality Study
Tailwater Temperature Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



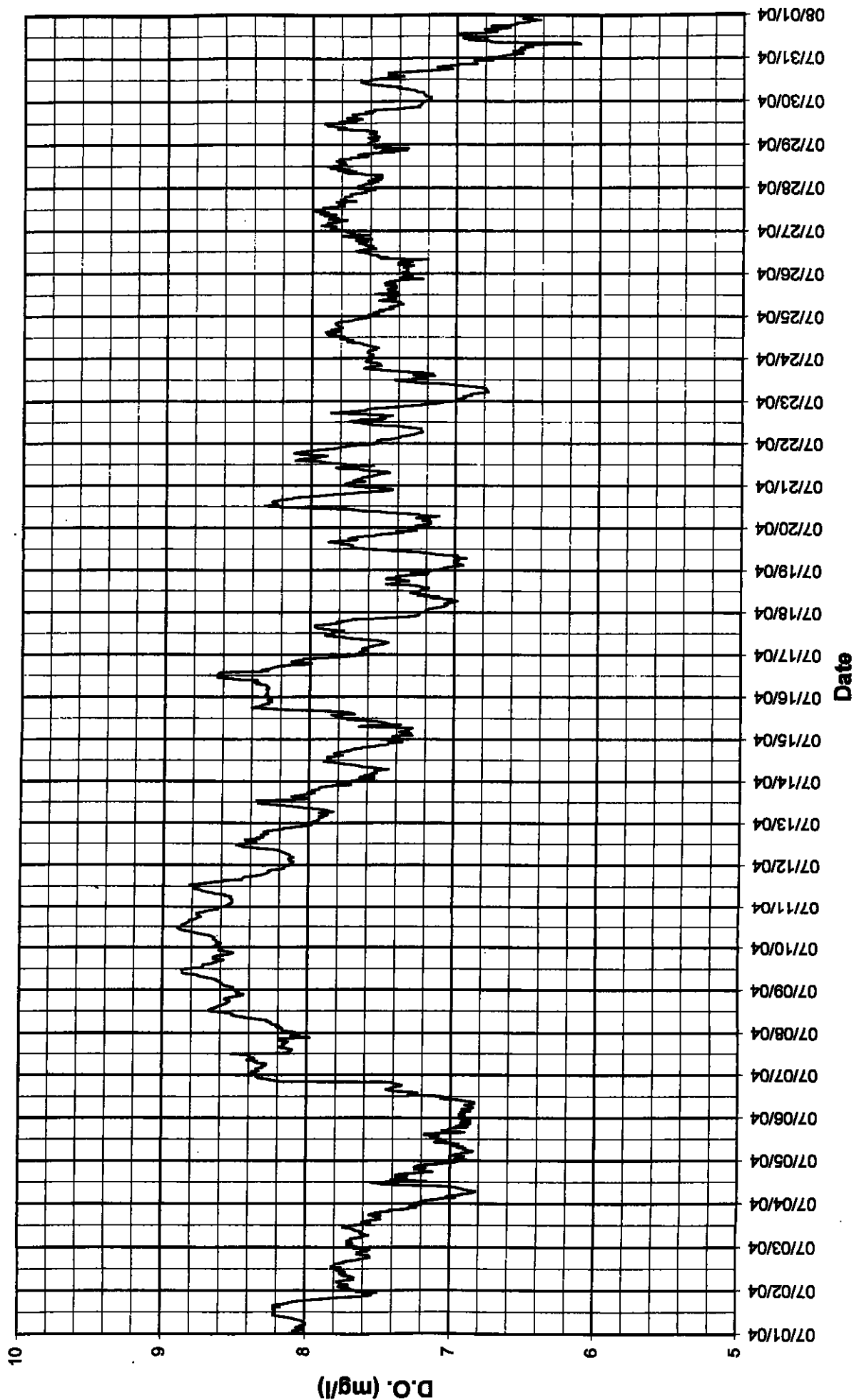
**2004 Water Quality Study
Tailwater pH Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



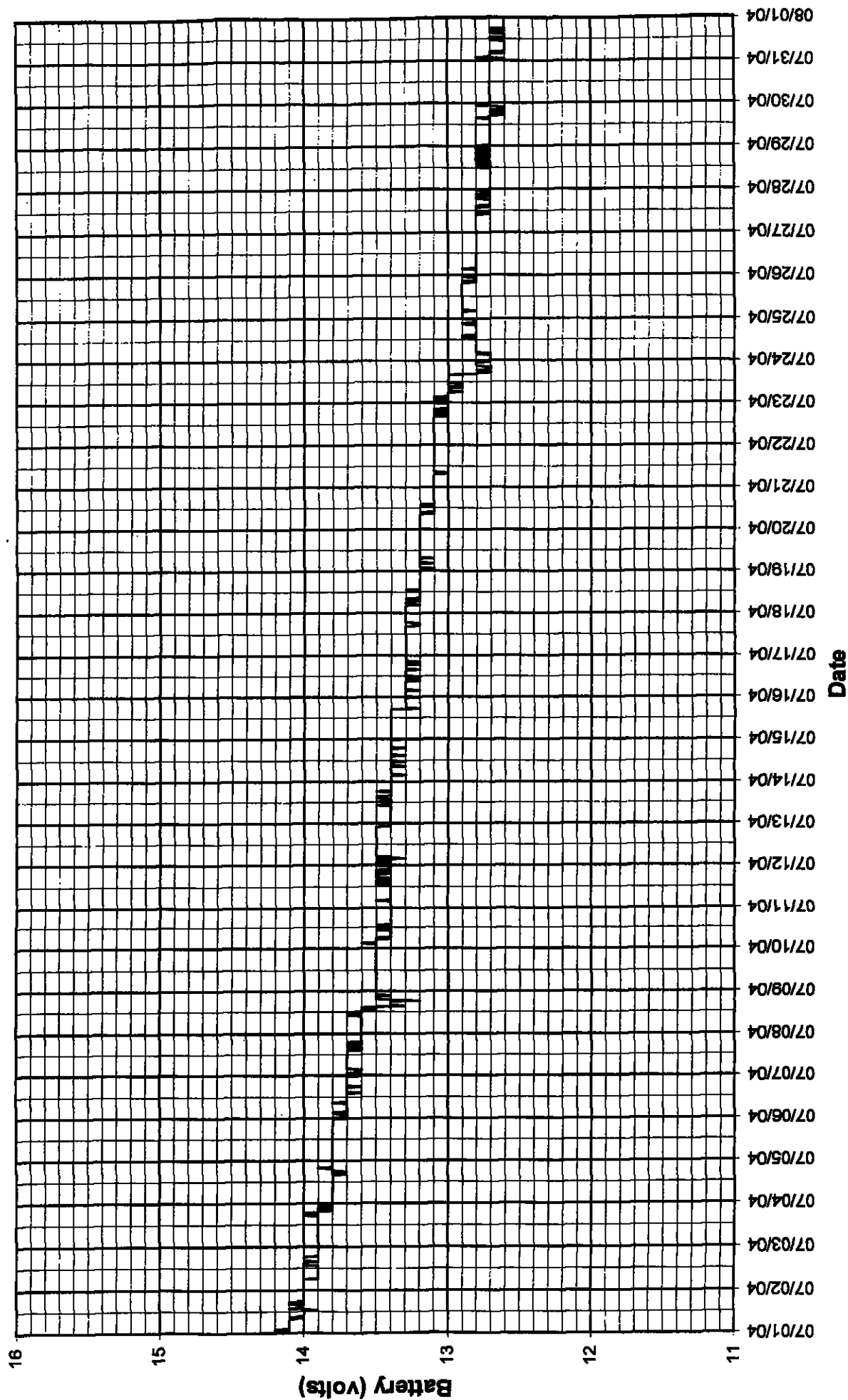
**2004 Water Quality Study
Tailwater Specific Conductivity Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



2004 Water Quality Study
Tailwater Dissolved Oxygen Sampling (mg/l)
Oconto Falls (Lower) - FERC Project No. 2689



2004 Water Quality Study
Tailwater Hydrolab Recorder Battery Sampling
Oconto Falls (Lower) - FERC Project No. 2689



2004 Water Quality Study
Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/1/2004	0:00	19.9	7.76	0.285	8.05
7/1/2004	0:30	19.9	7.75	0.284	8.08
7/1/2004	1:00	19.9	7.76	0.285	8.08
7/1/2004	1:30	19.9	7.75	0.285	8.03
7/1/2004	2:00	19.9	7.76	0.285	8.01
7/1/2004	2:30	19.9	7.75	0.285	8.00
7/1/2004	3:00	19.9	7.75	0.285	8.06
7/1/2004	3:30	19.8	7.75	0.285	8.03
7/1/2004	4:00	19.8	7.74	0.285	8.03
7/1/2004	4:30	19.8	7.74	0.284	8.00
7/1/2004	5:00	19.8	7.73	0.286	7.99
7/1/2004	5:30	19.7	7.73	0.285	8.00
7/1/2004	6:00	19.7	7.73	0.285	8.00
7/1/2004	6:30	19.7	7.74	0.286	8.02
7/1/2004	7:00	19.7	7.74	0.285	8.03
7/1/2004	7:30	19.7	7.75	0.285	8.06
7/1/2004	8:00	19.8	7.75	0.285	8.08
7/1/2004	8:30	19.8	7.76	0.286	8.11
7/1/2004	9:00	19.9	7.76	0.285	8.16
7/1/2004	9:30	19.9	7.77	0.286	8.19
7/1/2004	10:00	20.1	7.78	0.286	8.22
7/1/2004	10:30	20.1	7.78	0.286	8.21
7/1/2004	11:00	20.2	7.79	0.287	8.20
7/1/2004	11:30	20.2	7.79	0.287	8.22
7/1/2004	12:00	20.2	7.79	0.287	8.20
7/1/2004	12:30	20.3	7.79	0.288	8.20
7/1/2004	13:00	20.3	7.79	0.288	8.21
7/1/2004	13:30	20.3	7.80	0.288	8.22
7/1/2004	14:00	20.4	7.79	0.287	8.22
7/1/2004	14:30	20.4	7.80	0.288	8.17
7/1/2004	15:00	20.5	7.80	0.288	8.22
7/1/2004	15:30	20.6	7.82	0.288	8.21
7/1/2004	16:00	20.6	7.82	0.288	8.16
7/1/2004	16:30	20.6	7.80	0.289	8.11
7/1/2004	17:00	20.6	7.79	0.289	8.11
7/1/2004	17:30	20.6	7.79	0.289	8.06
7/1/2004	18:00	20.6	7.78	0.289	8.00
7/1/2004	18:30	20.5	7.77	0.290	7.94
7/1/2004	19:00	20.4	7.76	0.289	7.85
7/1/2004	19:30	20.3	7.76	0.290	7.80
7/1/2004	20:00	20.2	7.74	0.290	7.69
7/1/2004	20:30	20.2	7.72	0.290	7.60
7/1/2004	21:00	20.2	7.70	0.291	7.54
7/1/2004	21:30	20.2	7.72	0.291	7.56
7/1/2004	22:00	20.3	7.73	0.291	7.59
7/1/2004	22:30	20.4	7.74	0.292	7.50
7/1/2004	23:00	20.4	7.72	0.291	7.64
7/1/2004	23:30	20.4	7.73	0.291	7.62

2004 Water Quality Study
Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/2/2004	0:00	20.5	7.74	0.291	7.68
7/2/2004	0:30	20.6	7.75	0.292	7.68
7/2/2004	1:00	20.6	7.77	0.291	7.70
7/2/2004	1:30	20.7	7.78	0.291	7.75
7/2/2004	2:00	20.7	7.78	0.292	7.77
7/2/2004	2:30	20.7	7.78	0.293	7.70
7/2/2004	3:00	20.7	7.78	0.293	7.70
7/2/2004	3:30	20.8	7.80	0.293	7.76
7/2/2004	4:00	20.8	7.80	0.293	7.75
7/2/2004	4:30	20.8	7.81	0.291	7.78
7/2/2004	5:00	20.7	7.80	0.291	7.75
7/2/2004	5:30	20.7	7.78	0.291	7.70
7/2/2004	6:00	20.7	7.80	0.292	7.66
7/2/2004	6:30	20.8	7.79	0.292	7.70
7/2/2004	7:00	20.8	7.80	0.292	7.66
7/2/2004	7:30	20.8	7.80	0.292	7.68
7/2/2004	8:00	20.9	7.80	0.292	7.74
7/2/2004	8:30	20.9	7.81	0.293	7.71
7/2/2004	9:00	21.0	7.81	0.293	7.76
7/2/2004	9:30	21.1	7.82	0.294	7.72
7/2/2004	10:00	21.2	7.82	0.293	7.72
7/2/2004	10:30	21.2	7.82	0.291	7.76
7/2/2004	11:00	21.2	7.83	0.292	7.78
7/2/2004	11:30	21.3	7.83	0.292	7.76
7/2/2004	12:00	21.3	7.84	0.292	7.82
7/2/2004	12:30	21.4	7.84	0.294	7.75
7/2/2004	13:00	21.4	7.84	0.292	7.82
7/2/2004	13:30	21.4	7.84	0.294	7.79
7/2/2004	14:00	21.4	7.85	0.294	7.79
7/2/2004	14:30	21.5	7.85	0.294	7.79
7/2/2004	15:00	21.5	7.85	0.294	7.73
7/2/2004	15:30	21.5	7.85	0.294	7.74
7/2/2004	16:00	21.4	7.85	0.294	7.71
7/2/2004	16:30	21.4	7.84	0.294	7.65
7/2/2004	17:00	21.3	7.83	0.294	7.63
7/2/2004	17:30	21.2	7.83	0.294	7.59
7/2/2004	18:00	21.2	7.82	0.294	7.55
7/2/2004	18:30	21.2	7.81	0.296	7.55
7/2/2004	19:00	21.2	7.82	0.294	7.58
7/2/2004	19:30	21.2	7.83	0.294	7.56
7/2/2004	20:00	21.3	7.84	0.295	7.64
7/2/2004	20:30	21.3	7.84	0.294	7.62
7/2/2004	21:00	21.3	7.84	0.295	7.64
7/2/2004	21:30	21.3	7.84	0.295	7.57
7/2/2004	22:00	21.3	7.84	0.295	7.59
7/2/2004	22:30	21.3	7.84	0.295	7.55
7/2/2004	23:00	21.3	7.85	0.295	7.66
7/2/2004	23:30	21.4	7.86	0.295	7.65

2004 Water Quality Study
Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/3/2004	0:00	21.4	7.87	0.296	7.64
7/3/2004	0:30	21.4	7.88	0.294	7.68
7/3/2004	1:00	21.4	7.88	0.296	7.71
7/3/2004	1:30	21.4	7.89	0.294	7.71
7/3/2004	2:00	21.4	7.88	0.295	7.67
7/3/2004	2:30	21.4	7.88	0.295	7.69
7/3/2004	3:00	21.4	7.88	0.294	7.71
7/3/2004	3:30	21.4	7.88	0.295	7.68
7/3/2004	4:00	21.3	7.87	0.295	7.69
7/3/2004	4:30	21.4	7.86	0.296	7.65
7/3/2004	5:00	21.3	7.85	0.295	7.61
7/3/2004	5:30	21.3	7.85	0.296	7.61
7/3/2004	6:00	21.3	7.86	0.296	7.56
7/3/2004	6:30	21.3	7.85	0.295	7.59
7/3/2004	7:00	21.4	7.86	0.295	7.62
7/3/2004	7:30	21.4	7.87	0.296	7.61
7/3/2004	8:00	21.5	7.87	0.296	7.61
7/3/2004	8:30	21.6	7.87	0.297	7.65
7/3/2004	9:00	21.6	7.88	0.296	7.66
7/3/2004	9:30	21.7	7.88	0.299	7.67
7/3/2004	10:00	21.8	7.88	0.297	7.69
7/3/2004	10:30	21.8	7.89	0.297	7.74
7/3/2004	11:00	21.9	7.89	0.298	7.72
7/3/2004	11:30	21.8	7.89	0.297	7.68
7/3/2004	12:00	21.8	7.87	0.298	7.62
7/3/2004	12:30	21.7	7.86	0.299	7.58
7/3/2004	13:00	21.7	7.87	0.298	7.55
7/3/2004	13:30	21.7	7.87	0.298	7.61
7/3/2004	14:00	21.7	7.86	0.299	7.58
7/3/2004	14:30	21.7	7.86	0.298	7.54
7/3/2004	15:00	21.6	7.85	0.300	7.48
7/3/2004	15:30	21.6	7.85	0.299	7.49
7/3/2004	16:00	21.7	7.85	0.299	7.49
7/3/2004	16:30	21.7	7.86	0.299	7.53
7/3/2004	17:00	21.7	7.86	0.299	7.48
7/3/2004	17:30	21.7	7.86	0.299	7.56
7/3/2004	18:00	21.8	7.86	0.300	7.49
7/3/2004	18:30	21.8	7.87	0.299	7.52
7/3/2004	19:00	21.8	7.86	0.299	7.47
7/3/2004	19:30	21.8	7.85	0.300	7.40
7/3/2004	20:00	21.8	7.84	0.299	7.42
7/3/2004	20:30	21.8	7.83	0.300	7.29
7/3/2004	21:00	21.8	7.84	0.299	7.30
7/3/2004	21:30	21.8	7.82	0.299	7.23
7/3/2004	22:00	21.8	7.83	0.299	7.28
7/3/2004	22:30	21.8	7.83	0.299	7.23
7/3/2004	23:00	21.8	7.83	0.299	7.20
7/3/2004	23:30	21.8	7.82	0.299	7.28

2004 Water Quality Study
Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/4/2004	0:00	21.8	7.83	0.300	7.23
7/4/2004	0:30	21.8	7.82	0.299	7.20
7/4/2004	1:00	21.7	7.81	0.300	7.20
7/4/2004	1:30	21.7	7.80	0.300	7.15
7/4/2004	2:00	21.7	7.79	0.299	7.09
7/4/2004	2:30	21.7	7.78	0.301	7.07
7/4/2004	3:00	21.7	7.76	0.300	6.96
7/4/2004	3:30	21.7	7.77	0.301	7.03
7/4/2004	4:00	21.6	7.77	0.300	7.00
7/4/2004	4:30	21.6	7.77	0.301	6.94
7/4/2004	5:00	21.6	7.76	0.302	6.91
7/4/2004	5:30	21.5	7.75	0.300	6.86
7/4/2004	6:00	21.4	7.75	0.301	6.84
7/4/2004	6:30	21.4	7.75	0.300	6.82
7/4/2004	7:00	21.4	7.76	0.301	6.86
7/4/2004	7:30	21.4	7.76	0.301	6.90
7/4/2004	8:00	21.3	7.75	0.300	6.92
7/4/2004	8:30	21.4	7.76	0.300	6.94
7/4/2004	9:00	21.4	7.77	0.300	6.97
7/4/2004	9:30	21.4	7.78	0.300	7.06
7/4/2004	10:00	21.4	7.91	0.304	7.32
7/4/2004	10:30	21.3	7.93	0.301	7.47
7/4/2004	11:00	21.3	7.94	0.300	7.50
7/4/2004	11:30	21.3	7.95	0.300	7.55
7/4/2004	12:00	21.3	7.87	0.301	7.16
7/4/2004	12:30	21.4	7.82	0.299	7.26
7/4/2004	13:00	21.5	7.85	0.299	7.41
7/4/2004	13:30	21.6	7.85	0.300	7.30
7/4/2004	14:00	21.6	7.86	0.300	7.32
7/4/2004	14:30	21.6	7.86	0.299	7.38
7/4/2004	15:00	21.6	7.87	0.300	7.30
7/4/2004	15:30	21.6	7.88	0.299	7.38
7/4/2004	16:00	21.7	7.87	0.300	7.34
7/4/2004	16:30	21.6	7.86	0.301	7.26
7/4/2004	17:00	21.5	7.84	0.301	7.21
7/4/2004	17:30	21.5	7.82	0.301	7.12
7/4/2004	18:00	21.4	7.84	0.301	7.21
7/4/2004	18:30	21.5	7.85	0.301	7.19
7/4/2004	19:00	21.5	7.86	0.300	7.25
7/4/2004	19:30	21.6	7.87	0.301	7.17
7/4/2004	20:00	21.5	7.86	0.300	7.25
7/4/2004	20:30	21.5	7.87	0.300	7.23
7/4/2004	21:00	21.4	7.86	0.300	7.22
7/4/2004	21:30	21.3	7.84	0.301	7.12
7/4/2004	22:00	21.2	7.83	0.301	7.07
7/4/2004	22:30	21.1	7.82	0.301	7.01
7/4/2004	23:00	21.0	7.81	0.301	6.96
7/4/2004	23:30	20.9	7.79	0.302	6.94

2004 Water Quality Study Tailwater Tabular Data for Month of July 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/5/2004	0:00	20.8	7.79	0.303	6.88
7/5/2004	0:30	20.8	7.78	0.302	6.97
7/5/2004	1:00	20.7	7.77	0.302	6.96
7/5/2004	1:30	20.7	7.78	0.304	6.96
7/5/2004	2:00	20.7	7.77	0.304	6.90
7/5/2004	2:30	20.6	7.77	0.302	6.98
7/5/2004	3:00	20.6	7.77	0.302	6.97
7/5/2004	3:30	20.5	7.77	0.303	6.92
7/5/2004	4:00	20.4	7.76	0.304	6.92
7/5/2004	4:30	20.3	7.73	0.306	6.85
7/5/2004	5:00	20.2	7.74	0.305	6.84
7/5/2004	5:30	20.1	7.74	0.305	6.88
7/5/2004	6:00	20.1	7.74	0.306	6.91
7/5/2004	6:30	20.1	7.74	0.307	6.89
7/5/2004	7:00	20.0	7.73	0.307	6.95
7/5/2004	7:30	19.9	7.74	0.308	6.91
7/5/2004	8:00	19.9	7.74	0.309	6.98
7/5/2004	8:30	19.8	7.73	0.309	6.96
7/5/2004	9:00	19.8	7.74	0.310	6.94
7/5/2004	9:30	19.9	7.75	0.311	7.01
7/5/2004	10:00	19.9	7.76	0.311	7.11
7/5/2004	10:30	19.9	7.75	0.313	7.03
7/5/2004	11:00	19.9	7.75	0.313	7.07
7/5/2004	11:30	19.9	7.76	0.314	7.06
7/5/2004	12:00	20.0	7.76	0.315	7.11
7/5/2004	12:30	20.1	7.76	0.317	7.13
7/5/2004	13:00	20.1	7.77	0.319	7.14
7/5/2004	13:30	20.1	7.76	0.320	7.08
7/5/2004	14:00	20.1	7.76	0.321	7.18
7/5/2004	14:30	20.1	7.76	0.321	7.18
7/5/2004	15:00	19.9	7.76	0.321	7.07
7/5/2004	15:30	19.8	7.74	0.322	6.90
7/5/2004	16:00	19.7	7.73	0.323	7.03
7/5/2004	16:30	19.7	7.73	0.324	7.06
7/5/2004	17:00	19.6	7.73	0.325	7.01
7/5/2004	17:30	19.5	7.73	0.325	7.01
7/5/2004	18:00	19.4	7.72	0.326	6.98
7/5/2004	18:30	19.3	7.72	0.328	6.88
7/5/2004	19:00	19.2	7.71	0.328	6.96
7/5/2004	19:30	19.2	7.71	0.328	6.91
7/5/2004	20:00	19.2	7.71	0.327	6.87
7/5/2004	20:30	19.3	7.71	0.326	6.86
7/5/2004	21:00	19.3	7.71	0.325	6.93
7/5/2004	21:30	19.3	7.71	0.324	6.87
7/5/2004	22:00	19.4	7.71	0.324	6.86
7/5/2004	22:30	19.4	7.72	0.323	6.92
7/5/2004	23:00	19.5	7.72	0.322	6.92
7/5/2004	23:30	19.6	7.73	0.322	6.94

2004 Water Quality Study
Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/6/2004	0:00	19.6	7.73	0.321	6.94
7/6/2004	0:30	19.6	7.73	0.322	6.90
7/6/2004	1:00	19.6	7.73	0.322	6.91
7/6/2004	1:30	19.6	7.72	0.323	6.94
7/6/2004	2:00	19.6	7.72	0.323	6.92
7/6/2004	2:30	19.6	7.72	0.324	6.90
7/6/2004	3:00	19.5	7.72	0.323	6.93
7/6/2004	3:30	19.5	7.72	0.323	6.86
7/6/2004	4:00	19.5	7.72	0.322	6.92
7/6/2004	4:30	19.5	7.72	0.321	6.92
7/6/2004	5:00	19.4	7.72	0.321	6.86
7/6/2004	5:30	19.5	7.72	0.323	6.84
7/6/2004	6:00	19.4	7.71	0.322	6.87
7/6/2004	6:30	19.4	7.71	0.321	6.86
7/6/2004	7:00	19.4	7.72	0.320	6.90
7/6/2004	7:30	19.4	7.72	0.321	6.85
7/6/2004	8:00	19.4	7.72	0.321	6.83
7/6/2004	8:30	19.4	7.72	0.321	6.83
7/6/2004	9:00	19.4	7.72	0.321	6.87
7/6/2004	9:30	19.4	7.72	0.322	6.91
7/6/2004	10:00	19.3	7.72	0.322	6.96
7/6/2004	10:30	19.3	7.72	0.322	7.07
7/6/2004	11:00	19.3	7.73	0.322	7.04
7/6/2004	11:30	19.3	7.73	0.322	7.05
7/6/2004	12:00	19.3	7.74	0.322	7.10
7/6/2004	12:30	19.3	7.75	0.321	7.30
7/6/2004	13:00	19.3	7.75	0.321	7.23
7/6/2004	13:30	19.3	7.76	0.321	7.23
7/6/2004	14:00	19.3	7.77	0.320	7.28
7/6/2004	14:30	19.3	7.78	0.320	7.40
7/6/2004	15:00	19.3	7.78	0.320	7.42
7/6/2004	15:30	19.3	7.79	0.319	7.45
7/6/2004	16:00	19.3	7.77	0.319	7.42
7/6/2004	16:30	19.3	7.78	0.319	7.41
7/6/2004	17:00	19.3	7.77	0.319	7.38
7/6/2004	17:30	19.2	7.77	0.318	7.35
7/6/2004	18:00	19.1	7.76	0.317	7.34
7/6/2004	18:30	19.0	7.77	0.316	7.38
7/6/2004	19:00	19.0	7.77	0.315	7.40
7/6/2004	19:30	18.9	7.78	0.315	7.42
7/6/2004	20:00	18.8	7.78	0.314	8.17
7/6/2004	20:30	18.7	7.79	0.314	8.21
7/6/2004	21:00	18.7	7.78	0.314	8.25
7/6/2004	21:30	18.6	7.79	0.313	8.28
7/6/2004	22:00	18.5	7.79	0.313	8.33
7/6/2004	22:30	18.4	7.78	0.312	8.34
7/6/2004	23:00	18.4	7.78	0.312	8.35
7/6/2004	23:30	18.3	7.78	0.312	8.33

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Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/7/2004	0:00	18.3	7.78	0.311	8.36
7/7/2004	0:30	18.2	7.77	0.311	8.39
7/7/2004	1:00	18.2	7.77	0.311	8.35
7/7/2004	1:30	18.1	7.77	0.311	8.38
7/7/2004	2:00	18.1	7.77	0.311	8.33
7/7/2004	2:30	18.0	7.77	0.311	8.35
7/7/2004	3:00	18.0	7.77	0.312	8.35
7/7/2004	3:30	17.9	7.77	0.312	8.33
7/7/2004	4:00	17.9	7.77	0.313	8.30
7/7/2004	4:30	17.8	7.77	0.313	8.30
7/7/2004	5:00	17.8	7.76	0.314	8.28
7/7/2004	5:30	17.7	7.76	0.314	8.31
7/7/2004	6:00	17.7	7.76	0.314	8.28
7/7/2004	6:30	17.7	7.77	0.315	8.34
7/7/2004	7:00	17.7	7.77	0.315	8.36
7/7/2004	7:30	17.7	7.78	0.316	8.34
7/7/2004	8:00	17.7	7.78	0.316	8.41
7/7/2004	8:30	17.7	7.78	0.317	8.40
7/7/2004	9:00	17.7	7.79	0.317	8.36
7/7/2004	9:30	17.7	7.78	0.317	8.39
7/7/2004	10:00	17.7	7.79	0.317	8.39
7/7/2004	10:30	17.7	7.79	0.318	8.40
7/7/2004	11:00	17.7	7.79	0.318	8.41
7/7/2004	11:30	17.7	7.78	0.319	8.52
7/7/2004	12:00	17.7	7.77	0.319	8.12
7/7/2004	12:30	17.7	7.77	0.319	8.13
7/7/2004	13:00	17.6	7.77	0.320	8.11
7/7/2004	13:30	17.6	7.77	0.320	8.11
7/7/2004	14:00	17.6	7.76	0.320	8.10
7/7/2004	14:30	17.6	7.77	0.320	8.13
7/7/2004	15:00	17.7	7.78	0.320	8.15
7/7/2004	15:30	17.7	7.78	0.320	8.19
7/7/2004	16:00	17.7	7.78	0.320	8.16
7/7/2004	16:30	17.7	7.78	0.321	8.16
7/7/2004	17:00	17.7	7.78	0.321	8.17
7/7/2004	17:30	17.6	7.77	0.321	8.15
7/7/2004	18:00	17.6	7.77	0.321	8.14
7/7/2004	18:30	17.4	7.76	0.322	8.13
7/7/2004	19:00	17.4	7.76	0.322	8.16
7/7/2004	19:30	17.3	7.75	0.322	8.19
7/7/2004	20:00	17.2	7.75	0.322	8.19
7/7/2004	20:30	17.2	7.74	0.322	8.18
7/7/2004	21:00	17.1	7.75	0.322	7.98
7/7/2004	21:30	17.1	7.73	0.322	8.09
7/7/2004	22:00	17.0	7.74	0.321	8.11
7/7/2004	22:30	16.9	7.74	0.321	8.05
7/7/2004	23:00	16.9	7.74	0.321	8.07
7/7/2004	23:30	16.8	7.74	0.321	8.09

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/8/2004	0:00	16.8	7.74	0.320	8.08
7/8/2004	0:30	16.8	7.74	0.320	8.13
7/8/2004	1:00	16.7	7.75	0.320	8.17
7/8/2004	1:30	16.7	7.74	0.319	8.17
7/8/2004	2:00	16.7	7.74	0.319	8.17
7/8/2004	2:30	16.7	7.74	0.318	8.18
7/8/2004	3:00	16.6	7.74	0.318	8.21
7/8/2004	3:30	16.6	7.75	0.318	8.19
7/8/2004	4:00	16.6	7.74	0.317	8.22
7/8/2004	4:30	16.6	7.74	0.317	8.24
7/8/2004	5:00	16.6	7.74	0.317	8.25
7/8/2004	5:30	16.6	7.75	0.317	8.25
7/8/2004	6:00	16.5	7.75	0.317	8.28
7/8/2004	6:30	16.5	7.75	0.317	8.27
7/8/2004	7:00	16.5	7.75	0.316	8.33
7/8/2004	7:30	16.6	7.76	0.316	8.37
7/8/2004	8:00	16.6	7.78	0.315	8.42
7/8/2004	8:30	16.6	7.78	0.315	8.46
7/8/2004	9:00	16.7	7.79	0.315	8.49
7/8/2004	9:30	16.7	7.79	0.315	8.52
7/8/2004	10:00	16.7	7.80	0.315	8.51
7/8/2004	10:30	16.7	7.80	0.315	8.53
7/8/2004	11:00	16.8	7.81	0.314	8.59
7/8/2004	11:30	16.8	7.82	0.313	8.66
7/8/2004	12:00	16.9	7.83	0.312	8.68
7/8/2004	12:30	17.0	7.83	0.313	8.66
7/8/2004	13:00	17.1	7.83	0.313	8.66
7/8/2004	13:30	17.2	7.83	0.313	8.63
7/8/2004	14:00	17.2	7.83	0.313	8.62
7/8/2004	14:30	17.2	7.83	0.314	8.61
7/8/2004	15:00	17.2	7.82	0.313	8.59
7/8/2004	15:30	17.1	7.82	0.312	8.57
7/8/2004	16:00	17.0	7.82	0.312	8.56
7/8/2004	16:30	16.9	7.83	0.311	8.55
7/8/2004	17:00	16.9	7.82	0.311	8.54
7/8/2004	17:30	16.8	7.82	0.310	8.53
7/8/2004	18:00	16.9	7.82	0.310	8.56
7/8/2004	18:30	16.9	7.82	0.310	8.57
7/8/2004	19:00	16.9	7.82	0.310	8.56
7/8/2004	19:30	16.9	7.81	0.310	8.52
7/8/2004	20:00	16.9	7.81	0.310	8.49
7/8/2004	20:30	16.8	7.80	0.310	8.45
7/8/2004	21:00	16.7	7.79	0.310	8.44
7/8/2004	21:30	16.7	7.79	0.309	8.49
7/8/2004	22:00	16.7	7.79	0.308	8.47
7/8/2004	22:30	16.6	7.79	0.308	8.49
7/8/2004	23:00	16.6	7.78	0.308	8.49
7/8/2004	23:30	16.6	7.78	0.307	8.50

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/9/2004	0:00	16.6	7.78	0.307	8.52
7/9/2004	0:30	16.6	7.78	0.307	8.52
7/9/2004	1:00	16.6	7.78	0.306	8.51
7/9/2004	1:30	16.6	7.78	0.305	8.54
7/9/2004	2:00	16.6	7.79	0.305	8.57
7/9/2004	2:30	16.6	7.79	0.305	8.58
7/9/2004	3:00	16.6	7.79	0.305	8.59
7/9/2004	3:30	16.6	7.79	0.305	8.59
7/9/2004	4:00	16.7	7.79	0.305	8.60
7/9/2004	4:30	16.7	7.79	0.305	8.61
7/9/2004	5:00	16.7	7.79	0.305	8.62
7/9/2004	5:30	16.7	7.79	0.305	8.63
7/9/2004	6:00	16.7	7.79	0.305	8.65
7/9/2004	6:30	16.7	7.80	0.304	8.69
7/9/2004	7:00	16.7	7.81	0.304	8.72
7/9/2004	7:30	16.8	7.81	0.303	8.75
7/9/2004	8:00	16.8	7.82	0.303	8.75
7/9/2004	8:30	16.8	7.83	0.303	8.79
7/9/2004	9:00	16.9	7.84	0.303	8.85
7/9/2004	9:30	17.0	7.84	0.302	8.86
7/9/2004	10:00	17.0	7.84	0.302	8.86
7/9/2004	10:30	17.1	7.84	0.303	8.86
7/9/2004	11:00	17.1	7.84	0.303	8.87
7/9/2004	11:30	17.1	7.84	0.302	8.85
7/9/2004	12:00	17.1	7.83	0.302	8.80
7/9/2004	12:30	17.0	7.82	0.302	8.73
7/9/2004	13:00	17.0	7.82	0.302	8.72
7/9/2004	13:30	17.0	7.82	0.302	8.72
7/9/2004	14:00	16.9	7.82	0.301	8.72
7/9/2004	14:30	16.9	7.80	0.300	8.67
7/9/2004	15:00	16.8	7.80	0.300	8.65
7/9/2004	15:30	16.8	7.80	0.300	8.63
7/9/2004	16:00	16.8	7.80	0.299	8.62
7/9/2004	16:30	16.8	7.80	0.299	8.58
7/9/2004	17:00	16.8	7.80	0.298	8.60
7/9/2004	17:30	16.8	7.79	0.297	8.65
7/9/2004	18:00	16.7	7.79	0.296	8.65
7/9/2004	18:30	16.7	7.78	0.296	8.64
7/9/2004	19:00	16.7	7.78	0.296	8.62
7/9/2004	19:30	16.7	7.77	0.295	8.55
7/9/2004	20:00	16.6	7.77	0.294	8.53
7/9/2004	20:30	16.6	7.76	0.293	8.51
7/9/2004	21:00	16.7	7.76	0.294	8.54
7/9/2004	21:30	16.8	7.77	0.294	8.57
7/9/2004	22:00	16.8	7.77	0.295	8.61
7/9/2004	22:30	16.9	7.78	0.296	8.60
7/9/2004	23:00	16.9	7.78	0.296	8.59
7/9/2004	23:30	16.9	7.79	0.296	8.61

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Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/10/2004	0:00	17.0	7.79	0.295	8.65
7/10/2004	0:30	17.0	7.79	0.294	8.63
7/10/2004	1:00	17.0	7.79	0.294	8.63
7/10/2004	1:30	17.0	7.77	0.293	8.61
7/10/2004	2:00	17.0	7.78	0.293	8.60
7/10/2004	2:30	17.1	7.78	0.293	8.61
7/10/2004	3:00	17.1	7.78	0.293	8.63
7/10/2004	3:30	17.1	7.77	0.293	8.63
7/10/2004	4:00	17.1	7.78	0.292	8.64
7/10/2004	4:30	17.1	7.78	0.292	8.65
7/10/2004	5:00	17.1	7.78	0.292	8.64
7/10/2004	5:30	17.1	7.78	0.292	8.65
7/10/2004	6:00	17.1	7.78	0.292	8.66
7/10/2004	6:30	17.1	7.79	0.292	8.68
7/10/2004	7:00	17.2	7.79	0.292	8.71
7/10/2004	7:30	17.2	7.80	0.291	8.74
7/10/2004	8:00	17.2	7.80	0.291	8.77
7/10/2004	8:30	17.3	7.81	0.291	8.80
7/10/2004	9:00	17.3	7.81	0.291	8.82
7/10/2004	9:30	17.4	7.82	0.291	8.86
7/10/2004	10:00	17.5	7.83	0.291	8.88
7/10/2004	10:30	17.6	7.83	0.291	8.89
7/10/2004	11:00	17.6	7.83	0.290	8.90
7/10/2004	11:30	17.6	7.83	0.290	8.88
7/10/2004	12:00	17.6	7.83	0.290	8.87
7/10/2004	12:30	17.7	7.84	0.290	8.87
7/10/2004	13:00	17.6	7.83	0.290	8.86
7/10/2004	13:30	17.6	7.83	0.290	8.84
7/10/2004	14:00	17.6	7.83	0.290	8.83
7/10/2004	14:30	17.5	7.82	0.289	8.82
7/10/2004	15:00	17.5	7.83	0.289	8.82
7/10/2004	15:30	17.5	7.82	0.289	8.82
7/10/2004	16:00	17.4	7.82	0.289	8.78
7/10/2004	16:30	17.4	7.81	0.289	8.77
7/10/2004	17:00	17.4	7.81	0.289	8.76
7/10/2004	17:30	17.4	7.81	0.289	8.74
7/10/2004	18:00	17.5	7.80	0.289	8.75
7/10/2004	18:30	17.6	7.81	0.289	8.76
7/10/2004	19:00	17.6	7.81	0.290	8.77
7/10/2004	19:30	17.7	7.81	0.290	8.77
7/10/2004	20:00	17.8	7.81	0.290	8.74
7/10/2004	20:30	17.9	7.80	0.290	8.71
7/10/2004	21:00	18.0	7.81	0.290	8.71
7/10/2004	21:30	18.1	7.81	0.290	8.67
7/10/2004	22:00	18.1	7.80	0.290	8.62
7/10/2004	22:30	18.2	7.80	0.290	8.64
7/10/2004	23:00	18.2	7.80	0.290	8.61
7/10/2004	23:30	18.2	7.79	0.290	8.60

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Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/11/2004	0:00	18.3	7.78	0.290	8.58
7/11/2004	0:30	18.3	7.79	0.290	8.56
7/11/2004	1:00	18.3	7.78	0.290	8.54
7/11/2004	1:30	18.4	7.78	0.290	8.55
7/11/2004	2:00	18.4	7.78	0.290	8.53
7/11/2004	2:30	18.4	7.78	0.290	8.52
7/11/2004	3:00	18.4	7.78	0.290	8.52
7/11/2004	3:30	18.4	7.78	0.290	8.53
7/11/2004	4:00	18.5	7.78	0.290	8.52
7/11/2004	4:30	18.5	7.77	0.291	8.53
7/11/2004	5:00	18.5	7.78	0.291	8.54
7/11/2004	5:30	18.6	7.78	0.291	8.54
7/11/2004	6:00	18.6	7.79	0.291	8.53
7/11/2004	6:30	18.6	7.79	0.291	8.58
7/11/2004	7:00	18.6	7.80	0.291	8.57
7/11/2004	7:30	18.7	7.81	0.291	8.64
7/11/2004	8:00	18.7	7.82	0.291	8.66
7/11/2004	8:30	18.8	7.82	0.291	8.70
7/11/2004	9:00	18.9	7.83	0.291	8.73
7/11/2004	9:30	18.9	7.84	0.291	8.74
7/11/2004	10:00	19.0	7.84	0.291	8.77
7/11/2004	10:30	19.1	7.85	0.292	8.79
7/11/2004	11:00	19.1	7.85	0.292	8.77
7/11/2004	11:30	19.1	7.85	0.292	8.79
7/11/2004	12:00	19.2	7.86	0.292	8.75
7/11/2004	12:30	19.3	7.86	0.294	8.82
7/11/2004	13:00	19.2	7.85	0.293	8.76
7/11/2004	13:30	19.2	7.84	0.293	8.71
7/11/2004	14:00	19.1	7.83	0.294	8.66
7/11/2004	14:30	19.1	7.82	0.293	8.59
7/11/2004	15:00	19.1	7.82	0.294	8.59
7/11/2004	15:30	19.0	7.80	0.293	8.46
7/11/2004	16:00	19.0	7.80	0.294	8.46
7/11/2004	16:30	19.1	7.81	0.293	8.45
7/11/2004	17:00	19.1	7.81	0.293	8.44
7/11/2004	17:30	19.1	7.80	0.293	8.38
7/11/2004	18:00	19.2	7.80	0.294	8.33
7/11/2004	18:30	19.2	7.79	0.294	8.31
7/11/2004	19:00	19.2	7.79	0.294	8.29
7/11/2004	19:30	19.2	7.79	0.294	8.28
7/11/2004	20:00	19.2	7.78	0.294	8.27
7/11/2004	20:30	19.3	7.79	0.294	8.28
7/11/2004	21:00	19.3	7.78	0.294	8.25
7/11/2004	21:30	19.3	7.77	0.294	8.19
7/11/2004	22:00	19.3	7.77	0.294	8.17
7/11/2004	22:30	19.3	7.77	0.294	8.17
7/11/2004	23:00	19.2	7.76	0.295	8.16
7/11/2004	23:30	19.2	7.76	0.294	8.15

2004 Water Quality Study Tailwater Tabular Data for Month of July 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/12/2004	0:00	19.3	7.76	0.295	8.12
7/12/2004	0:30	19.3	7.76	0.295	8.11
7/12/2004	1:00	19.3	7.76	0.295	8.12
7/12/2004	1:30	19.3	7.76	0.295	8.10
7/12/2004	2:00	19.4	7.76	0.294	8.13
7/12/2004	2:30	19.4	7.77	0.295	8.12
7/12/2004	3:00	19.4	7.77	0.295	8.14
7/12/2004	3:30	19.4	7.77	0.295	8.12
7/12/2004	4:00	19.4	7.78	0.295	8.10
7/12/2004	4:30	19.4	7.77	0.295	8.13
7/12/2004	5:00	19.4	7.77	0.295	8.13
7/12/2004	5:30	19.4	7.78	0.295	8.13
7/12/2004	6:00	19.4	7.78	0.295	8.15
7/12/2004	6:30	19.4	7.78	0.295	8.16
7/12/2004	7:00	19.5	7.79	0.295	8.18
7/12/2004	7:30	19.5	7.80	0.294	8.19
7/12/2004	8:00	19.6	7.81	0.295	8.21
7/12/2004	8:30	19.6	7.81	0.295	8.25
7/12/2004	9:00	19.6	7.83	0.295	8.34
7/12/2004	9:30	19.7	7.85	0.295	8.38
7/12/2004	10:00	19.8	7.86	0.295	8.45
7/12/2004	10:30	19.9	7.87	0.295	8.46
7/12/2004	11:00	19.9	7.88	0.295	8.50
7/12/2004	11:30	20.0	7.88	0.295	8.48
7/12/2004	12:00	20.0	7.87	0.295	8.40
7/12/2004	12:30	20.0	7.86	0.295	8.36
7/12/2004	13:00	20.0	7.86	0.295	8.37
7/12/2004	13:30	20.1	7.87	0.295	8.41
7/12/2004	14:00	20.2	7.89	0.295	8.44
7/12/2004	14:30	20.2	7.88	0.296	8.34
7/12/2004	15:00	20.2	7.88	0.295	8.36
7/12/2004	15:30	20.2	7.88	0.295	8.31
7/12/2004	16:00	20.2	7.87	0.296	8.31
7/12/2004	16:30	20.3	7.87	0.295	8.33
7/12/2004	17:00	20.3	7.88	0.296	8.31
7/12/2004	17:30	20.3	7.88	0.295	8.28
7/12/2004	18:00	20.5	7.90	0.296	8.31
7/12/2004	18:30	20.6	7.90	0.296	8.31
7/12/2004	19:00	20.6	7.90	0.296	8.29
7/12/2004	19:30	20.4	7.89	0.296	8.24
7/12/2004	20:00	20.4	7.88	0.296	8.18
7/12/2004	20:30	20.4	7.88	0.296	8.18
7/12/2004	21:00	20.4	7.87	0.298	8.11
7/12/2004	21:30	20.4	7.86	0.297	8.08
7/12/2004	22:00	20.3	7.85	0.299	8.00
7/12/2004	22:30	20.3	7.84	0.298	7.98
7/12/2004	23:00	20.3	7.84	0.297	8.01
7/12/2004	23:30	20.3	7.83	0.297	7.97

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Tallwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/13/2004	0:00	20.3	7.83	0.296	7.98
7/13/2004	0:30	20.3	7.83	0.296	7.97
7/13/2004	1:00	20.3	7.83	0.297	7.94
7/13/2004	1:30	20.4	7.83	0.297	7.93
7/13/2004	2:00	20.4	7.84	0.297	7.93
7/13/2004	2:30	20.5	7.84	0.298	7.92
7/13/2004	3:00	20.5	7.84	0.298	7.90
7/13/2004	3:30	20.5	7.84	0.298	7.93
7/13/2004	4:00	20.6	7.84	0.298	7.88
7/13/2004	4:30	20.5	7.84	0.298	7.87
7/13/2004	5:00	20.5	7.84	0.298	7.89
7/13/2004	5:30	20.4	7.84	0.298	7.93
7/13/2004	6:00	20.4	7.83	0.299	7.83
7/13/2004	6:30	20.4	7.84	0.299	7.86
7/13/2004	7:00	20.4	7.84	0.299	7.88
7/13/2004	7:30	20.5	7.85	0.300	7.92
7/13/2004	8:00	20.6	7.86	0.300	7.98
7/13/2004	8:30	20.6	7.87	0.300	8.04
7/13/2004	9:00	20.7	7.88	0.299	8.08
7/13/2004	9:30	20.8	7.89	0.300	8.13
7/13/2004	10:00	21.1	7.92	0.300	8.21
7/13/2004	10:30	21.2	7.95	0.300	8.27
7/13/2004	11:00	21.4	7.96	0.300	8.35
7/13/2004	11:30	21.5	7.97	0.300	8.33
7/13/2004	12:00	21.6	7.98	0.300	8.35
7/13/2004	12:30	21.7	7.98	0.300	8.36
7/13/2004	13:00	21.6	7.96	0.301	8.16
7/13/2004	13:30	21.6	7.93	0.301	8.06
7/13/2004	14:00	21.5	7.92	0.301	8.00
7/13/2004	14:30	21.6	7.93	0.301	8.07
7/13/2004	15:00	21.7	7.94	0.301	8.12
7/13/2004	15:30	21.5	7.92	0.301	8.07
7/13/2004	16:00	21.4	7.92	0.301	8.03
7/13/2004	16:30	21.5	7.92	0.302	8.01
7/13/2004	17:00	21.5	7.93	0.303	7.96
7/13/2004	17:30	21.6	7.94	0.302	8.01
7/13/2004	18:00	21.7	7.95	0.302	7.97
7/13/2004	18:30	21.8	7.95	0.303	7.98
7/13/2004	19:00	21.8	7.95	0.302	7.93
7/13/2004	19:30	21.7	7.95	0.303	7.93
7/13/2004	20:00	21.7	7.94	0.302	7.93
7/13/2004	20:30	21.7	7.93	0.302	7.90
7/13/2004	21:00	21.6	7.91	0.303	7.84
7/13/2004	21:30	21.5	7.90	0.303	7.71
7/13/2004	22:00	21.5	7.91	0.304	7.75
7/13/2004	22:30	21.6	7.92	0.304	7.71
7/13/2004	23:00	21.6	7.93	0.304	7.81
7/13/2004	23:30	21.6	7.92	0.304	7.74

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Tailwater Tabular Data for Month of July 2004					
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/14/2004	0:00	21.6	7.91	0.304	7.68
7/14/2004	0:30	21.5	7.91	0.304	7.66
7/14/2004	1:00	21.5	7.90	0.305	7.61
7/14/2004	1:30	21.4	7.90	0.305	7.55
7/14/2004	2:00	21.4	7.90	0.304	7.65
7/14/2004	2:30	21.4	7.90	0.305	7.55
7/14/2004	3:00	21.4	7.90	0.305	7.62
7/14/2004	3:30	21.5	7.90	0.306	7.58
7/14/2004	4:00	21.4	7.90	0.306	7.57
7/14/2004	4:30	21.4	7.90	0.305	7.53
7/14/2004	5:00	21.4	7.90	0.306	7.54
7/14/2004	5:30	21.4	7.89	0.306	7.55
7/14/2004	6:00	21.3	7.89	0.305	7.51
7/14/2004	6:30	21.3	7.88	0.306	7.45
7/14/2004	7:00	21.2	7.89	0.306	7.55
7/14/2004	7:30	21.3	7.90	0.306	7.54
7/14/2004	8:00	21.3	7.91	0.306	7.63
7/14/2004	8:30	21.4	7.92	0.306	7.66
7/14/2004	9:00	21.4	7.94	0.307	7.69
7/14/2004	9:30	21.5	7.95	0.307	7.75
7/14/2004	10:00	21.6	7.96	0.307	7.79
7/14/2004	10:30	21.7	7.98	0.308	7.84
7/14/2004	11:00	21.7	7.99	0.307	7.90
7/14/2004	11:30	21.8	7.99	0.307	7.86
7/14/2004	12:00	21.8	8.00	0.307	7.88
7/14/2004	12:30	21.9	8.00	0.308	7.85
7/14/2004	13:00	21.9	7.99	0.307	7.86
7/14/2004	13:30	22.0	7.98	0.307	7.88
7/14/2004	14:00	22.1	7.98	0.308	7.81
7/14/2004	14:30	22.1	7.98	0.308	7.77
7/14/2004	15:00	22.2	7.98	0.308	7.82
7/14/2004	15:30	22.3	7.99	0.308	7.83
7/14/2004	16:00	22.4	7.99	0.309	7.80
7/14/2004	16:30	22.4	7.99	0.308	7.78
7/14/2004	17:00	22.4	7.99	0.308	7.73
7/14/2004	17:30	22.4	7.98	0.308	7.71
7/14/2004	18:00	22.3	7.98	0.308	7.70
7/14/2004	18:30	22.3	7.97	0.308	7.64
7/14/2004	19:00	22.3	7.97	0.309	7.63
7/14/2004	19:30	22.2	7.95	0.308	7.55
7/14/2004	20:00	22.1	7.94	0.308	7.53
7/14/2004	20:30	22.0	7.92	0.308	7.46
7/14/2004	21:00	21.9	7.91	0.308	7.46
7/14/2004	21:30	21.9	7.90	0.308	7.45
7/14/2004	22:00	21.9	7.90	0.308	7.36
7/14/2004	22:30	21.9	7.91	0.309	7.36
7/14/2004	23:00	21.9	7.91	0.309	7.44
7/14/2004	23:30	21.8	7.91	0.308	7.50

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/15/2004	0:00	0.0	7.91	0.309	7.41
7/15/2004	0:30	21.8	7.91	0.310	7.38
7/15/2004	1:00	21.8	7.91	0.309	7.43
7/15/2004	1:30	21.7	7.90	0.309	7.42
7/15/2004	2:00	21.7	7.90	0.309	7.29
7/15/2004	2:30	21.7	7.89	0.309	7.34
7/15/2004	3:00	21.7	7.89	0.309	7.30
7/15/2004	3:30	21.7	7.90	0.310	7.36
7/15/2004	4:00	21.6	7.91	0.310	7.38
7/15/2004	4:30	21.6	7.90	0.310	7.31
7/15/2004	5:00	21.6	7.90	0.310	7.34
7/15/2004	5:30	21.6	7.90	0.310	7.33
7/15/2004	6:00	21.5	7.90	0.310	7.29
7/15/2004	6:30	21.4	7.90	0.310	7.41
7/15/2004	7:00	21.4	8.02	0.310	7.66
7/15/2004	7:30	21.4	8.01	0.310	7.60
7/15/2004	8:00	21.6	7.92	0.311	7.37
7/15/2004	8:30	21.6	7.93	0.310	7.48
7/15/2004	9:00	21.7	7.94	0.310	7.47
7/15/2004	9:30	21.7	7.94	0.310	7.51
7/15/2004	10:00	21.8	7.95	0.310	7.54
7/15/2004	10:30	21.9	7.97	0.310	7.67
7/15/2004	11:00	22.0	7.99	0.310	7.74
7/15/2004	11:30	22.3	8.07	0.308	7.67
7/15/2004	12:00	22.3	8.10	0.308	7.82
7/15/2004	12:30	22.4	8.11	0.309	7.78
7/15/2004	13:00	22.5	8.11	0.309	7.81
7/15/2004	13:30	22.6	8.11	0.310	7.85
7/15/2004	14:00	22.7	8.11	0.310	7.69
7/15/2004	14:30	22.8	8.12	0.310	7.72
7/15/2004	15:00	22.8	8.12	0.310	7.75
7/15/2004	15:30	22.9	8.12	0.310	7.82
7/15/2004	16:00	22.9	8.11	0.311	7.98
7/15/2004	16:30	22.9	8.11	0.311	8.16
7/15/2004	17:00	22.9	8.09	0.312	8.27
7/15/2004	17:30	22.8	8.07	0.310	8.40
7/15/2004	18:00	22.7	8.07	0.310	8.37
7/15/2004	18:30	22.7	8.07	0.310	8.33
7/15/2004	19:00	22.7	8.06	0.310	8.33
7/15/2004	19:30	22.7	8.06	0.310	8.31
7/15/2004	20:00	22.7	8.06	0.310	8.28
7/15/2004	20:30	22.6	8.05	0.310	8.29
7/15/2004	21:00	22.6	8.04	0.310	8.26
7/15/2004	21:30	22.6	8.04	0.310	8.28
7/15/2004	22:00	22.5	8.03	0.310	8.29
7/15/2004	22:30	22.4	8.01	0.310	8.26
7/15/2004	23:00	22.3	8.01	0.311	8.27
7/15/2004	23:30	22.2	8.00	0.311	8.30

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Tallwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/16/2004	0:00	22.2	7.99	0.311	8.31
7/16/2004	0:30	22.2	7.99	0.311	8.30
7/16/2004	1:00	22.2	7.99	0.311	8.29
7/16/2004	1:30	22.1	7.99	0.311	8.30
7/16/2004	2:00	22.1	8.00	0.311	8.29
7/16/2004	2:30	22.2	7.99	0.311	8.29
7/16/2004	3:00	22.1	7.99	0.311	8.29
7/16/2004	3:30	22.1	7.98	0.311	8.29
7/16/2004	4:00	22.1	7.99	0.311	8.30
7/16/2004	4:30	22.1	7.98	0.311	8.28
7/16/2004	5:00	22.1	7.98	0.311	8.29
7/16/2004	5:30	22.1	7.98	0.311	8.29
7/16/2004	6:00	22.1	7.99	0.311	8.30
7/16/2004	6:30	22.1	8.00	0.311	8.31
7/16/2004	7:00	22.1	8.01	0.311	8.37
7/16/2004	7:30	22.1	8.02	0.311	8.35
7/16/2004	8:00	22.1	8.03	0.310	8.40
7/16/2004	8:30	22.1	8.03	0.310	8.38
7/16/2004	9:00	22.1	8.03	0.310	8.36
7/16/2004	9:30	22.2	8.07	0.310	8.53
7/16/2004	10:00	22.2	8.07	0.310	8.53
7/16/2004	10:30	22.3	8.09	0.310	8.63
7/16/2004	11:00	22.4	8.11	0.310	8.64
7/16/2004	11:30	22.3	8.09	0.310	8.57
7/16/2004	12:00	22.4	8.10	0.310	8.64
7/16/2004	12:30	22.4	8.10	0.310	8.63
7/16/2004	13:00	22.4	8.11	0.309	8.63
7/16/2004	13:30	22.5	8.11	0.310	8.61
7/16/2004	14:00	22.5	7.97	0.311	8.34
7/16/2004	14:30	22.6	7.98	0.311	8.29
7/16/2004	15:00	22.6	7.98	0.311	8.33
7/16/2004	15:30	22.6	7.97	0.313	8.28
7/16/2004	16:00	22.6	7.98	0.312	8.26
7/16/2004	16:30	22.6	7.97	0.312	8.24
7/16/2004	17:00	22.5	7.97	0.312	8.21
7/16/2004	17:30	22.4	7.95	0.312	8.14
7/16/2004	18:00	22.4	7.93	0.313	8.00
7/16/2004	18:30	22.4	7.93	0.313	7.99
7/16/2004	19:00	22.5	7.94	0.313	8.08
7/16/2004	19:30	22.5	7.95	0.311	8.13
7/16/2004	20:00	22.5	7.96	0.308	8.10
7/16/2004	20:30	22.6	7.95	0.309	8.05
7/16/2004	21:00	22.6	7.96	0.308	8.05
7/16/2004	21:30	22.6	7.94	0.309	7.93
7/16/2004	22:00	22.5	7.92	0.309	7.81
7/16/2004	22:30	22.4	7.90	0.309	7.73
7/16/2004	23:00	22.4	7.88	0.309	7.66
7/16/2004	23:30	22.4	7.87	0.309	7.60

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Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/17/2004	0:00	22.4	7.88	0.309	7.62
7/17/2004	0:30	22.3	7.88	0.309	7.64
7/17/2004	1:00	22.3	7.88	0.308	7.66
7/17/2004	1:30	22.3	7.88	0.309	7.64
7/17/2004	2:00	22.3	7.88	0.309	7.61
7/17/2004	2:30	22.3	7.88	0.308	7.64
7/17/2004	3:00	22.3	7.89	0.309	7.64
7/17/2004	3:30	22.3	7.89	0.310	7.60
7/17/2004	4:00	22.3	7.88	0.311	7.59
7/17/2004	4:30	22.2	7.88	0.311	7.56
7/17/2004	5:00	22.2	7.87	0.310	7.54
7/17/2004	5:30	22.2	7.87	0.311	7.49
7/17/2004	6:00	22.1	7.86	0.310	7.48
7/17/2004	6:30	22.1	7.86	0.311	7.46
7/17/2004	7:00	22.1	7.86	0.310	7.50
7/17/2004	7:30	22.1	7.87	0.309	7.53
7/17/2004	8:00	22.2	7.88	0.310	7.60
7/17/2004	8:30	22.2	7.89	0.309	7.68
7/17/2004	9:00	22.3	7.90	0.309	7.75
7/17/2004	9:30	22.4	7.92	0.309	7.76
7/17/2004	10:00	22.4	7.93	0.309	7.84
7/17/2004	10:30	22.5	7.94	0.309	7.90
7/17/2004	11:00	22.5	7.95	0.309	7.89
7/17/2004	11:30	22.4	7.94	0.308	7.84
7/17/2004	12:00	22.5	7.95	0.309	7.85
7/17/2004	12:30	22.5	7.94	0.310	7.77
7/17/2004	13:00	22.6	7.95	0.309	7.77
7/17/2004	13:30	22.6	7.96	0.310	7.85
7/17/2004	14:00	22.7	7.97	0.310	7.89
7/17/2004	14:30	22.7	8.00	0.309	7.95
7/17/2004	15:00	22.8	8.00	0.309	7.96
7/17/2004	15:30	22.8	8.02	0.309	7.97
7/17/2004	16:00	22.9	8.01	0.310	7.97
7/17/2004	16:30	22.8	8.01	0.309	7.89
7/17/2004	17:00	22.8	8.00	0.310	7.84
7/17/2004	17:30	22.8	7.99	0.309	7.79
7/17/2004	18:00	22.8	8.00	0.310	7.82
7/17/2004	18:30	22.8	7.99	0.310	7.77
7/17/2004	19:00	22.8	8.00	0.309	7.72
7/17/2004	19:30	22.7	7.99	0.309	7.71
7/17/2004	20:00	22.6	7.97	0.310	7.52
7/17/2004	20:30	22.4	7.94	0.310	7.46
7/17/2004	21:00	22.3	7.91	0.310	7.33
7/17/2004	21:30	22.3	7.90	0.310	7.27
7/17/2004	22:00	22.2	7.89	0.309	7.25
7/17/2004	22:30	22.2	7.89	0.309	7.25
7/17/2004	23:00	22.3	7.90	0.311	7.26
7/17/2004	23:30	22.2	7.91	0.310	7.24

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Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/18/2004	0:00	22.3	7.91	0.311	7.20
7/18/2004	0:30	22.2	7.90	0.310	7.20
7/18/2004	1:00	22.2	7.91	0.310	7.20
7/18/2004	1:30	22.2	7.91	0.310	7.18
7/18/2004	2:00	22.2	7.91	0.310	7.14
7/18/2004	2:30	22.1	7.91	0.311	7.10
7/18/2004	3:00	22.1	7.90	0.310	7.07
7/18/2004	3:30	22.1	7.90	0.310	7.06
7/18/2004	4:00	22.1	7.90	0.310	7.05
7/18/2004	4:30	22.0	7.90	0.310	7.07
7/18/2004	5:00	22.0	7.89	0.310	7.03
7/18/2004	5:30	21.9	7.89	0.310	7.01
7/18/2004	6:00	22.0	7.90	0.311	6.98
7/18/2004	6:30	21.9	7.91	0.311	7.05
7/18/2004	7:00	21.9	7.92	0.310	7.02
7/18/2004	7:30	22.0	7.93	0.312	7.14
7/18/2004	8:00	22.1	7.94	0.310	7.17
7/18/2004	8:30	22.1	7.95	0.312	7.11
7/18/2004	9:00	22.2	7.96	0.310	7.26
7/18/2004	9:30	22.3	7.97	0.311	7.18
7/18/2004	10:00	22.3	7.98	0.311	7.26
7/18/2004	10:30	22.4	7.99	0.310	7.31
7/18/2004	11:00	22.5	8.01	0.312	7.24
7/18/2004	11:30	22.6	8.00	0.313	7.25
7/18/2004	12:00	22.6	7.99	0.312	7.24
7/18/2004	12:30	22.6	7.99	0.311	7.20
7/18/2004	13:00	22.7	7.99	0.311	7.19
7/18/2004	13:30	22.7	7.99	0.312	7.18
7/18/2004	14:00	22.7	8.00	0.311	7.24
7/18/2004	14:30	22.7	8.01	0.312	7.25
7/18/2004	15:00	22.7	8.03	0.312	7.31
7/18/2004	15:30	22.8	8.05	0.312	7.48
7/18/2004	16:00	22.8	8.05	0.311	7.42
7/18/2004	16:30	22.8	8.05	0.311	7.40
7/18/2004	17:00	22.8	8.05	0.311	7.39
7/18/2004	17:30	22.8	8.05	0.311	7.32
7/18/2004	18:00	22.9	8.05	0.311	7.36
7/18/2004	18:30	22.8	8.05	0.311	7.48
7/18/2004	19:00	22.8	8.05	0.311	7.47
7/18/2004	19:30	22.8	8.05	0.311	7.38
7/18/2004	20:00	22.7	8.04	0.312	7.41
7/18/2004	20:30	22.6	8.01	0.312	7.34
7/18/2004	21:00	22.5	7.99	0.312	7.26
7/18/2004	21:30	22.5	7.98	0.313	7.19
7/18/2004	22:00	22.4	7.97	0.313	7.31
7/18/2004	22:30	22.4	7.97	0.313	7.22
7/18/2004	23:00	22.4	7.96	0.313	7.18
7/18/2004	23:30	22.3	7.96	0.313	7.16

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/19/2004	0:00	22.3	7.95	0.313	7.12
7/19/2004	0:30	22.3	7.94	0.314	7.07
7/19/2004	1:00	22.3	7.93	0.313	7.08
7/19/2004	1:30	22.3	7.93	0.314	7.04
7/19/2004	2:00	22.3	7.92	0.314	6.99
7/19/2004	2:30	22.3	7.91	0.314	6.94
7/19/2004	3:00	22.2	7.91	0.315	6.95
7/19/2004	3:30	22.2	7.91	0.313	6.99
7/19/2004	4:00	22.2	7.91	0.314	7.01
7/19/2004	4:30	22.2	7.92	0.314	6.98
7/19/2004	5:00	22.2	7.91	0.313	7.01
7/19/2004	5:30	22.2	7.91	0.314	6.97
7/19/2004	6:00	22.1	7.91	0.314	6.99
7/19/2004	6:30	22.1	7.90	0.314	6.92
7/19/2004	7:00	22.1	7.90	0.315	6.98
7/19/2004	7:30	22.1	7.91	0.314	7.01
7/19/2004	8:00	22.1	7.91	0.315	6.98
7/19/2004	8:30	22.2	7.92	0.314	7.12
7/19/2004	9:00	22.3	7.94	0.314	7.15
7/19/2004	9:30	22.3	7.95	0.314	7.22
7/19/2004	10:00	22.4	7.96	0.315	7.25
7/19/2004	10:30	22.6	7.99	0.314	7.44
7/19/2004	11:00	22.7	8.02	0.314	7.47
7/19/2004	11:30	22.9	8.05	0.314	7.57
7/19/2004	12:00	23.1	8.07	0.315	7.66
7/19/2004	12:30	23.2	8.08	0.313	7.72
7/19/2004	13:00	23.3	8.09	0.313	7.71
7/19/2004	13:30	23.4	8.09	0.314	7.71
7/19/2004	14:00	23.4	8.10	0.313	7.72
7/19/2004	14:30	23.5	8.11	0.314	7.79
7/19/2004	15:00	23.6	8.13	0.313	7.79
7/19/2004	15:30	23.7	8.14	0.313	7.88
7/19/2004	16:00	23.6	8.14	0.314	7.82
7/19/2004	16:30	23.5	8.13	0.316	7.71
7/19/2004	17:00	23.4	8.12	0.314	7.68
7/19/2004	17:30	23.4	8.11	0.313	7.74
7/19/2004	18:00	23.3	8.10	0.314	7.71
7/19/2004	18:30	23.3	8.09	0.314	7.67
7/19/2004	19:00	23.3	8.08	0.314	7.56
7/19/2004	19:30	23.3	8.07	0.314	7.55
7/19/2004	20:00	23.3	8.06	0.314	7.49
7/19/2004	20:30	23.2	8.05	0.315	7.42
7/19/2004	21:00	23.2	8.04	0.314	7.36
7/19/2004	21:30	23.2	8.04	0.315	7.41
7/19/2004	22:00	23.1	8.03	0.314	7.27
7/19/2004	22:30	23.1	8.02	0.315	7.31
7/19/2004	23:00	23.1	8.01	0.315	7.27
7/19/2004	23:30	23.1	8.00	0.315	7.29

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/20/2004	0:00	23.1	8.01	0.315	7.26
7/20/2004	0:30	23.0	8.00	0.315	7.28
7/20/2004	1:00	22.9	7.99	0.315	7.25
7/20/2004	1:30	22.9	7.98	0.316	7.19
7/20/2004	2:00	22.8	7.97	0.315	7.17
7/20/2004	2:30	22.8	7.97	0.315	7.19
7/20/2004	3:00	22.8	7.96	0.315	7.17
7/20/2004	3:30	22.7	7.97	0.315	7.23
7/20/2004	4:00	22.7	7.97	0.315	7.18
7/20/2004	4:30	22.7	7.97	0.316	7.22
7/20/2004	5:00	22.7	7.97	0.316	7.27
7/20/2004	5:30	22.6	7.96	0.317	7.19
7/20/2004	6:00	22.6	7.95	0.316	7.11
7/20/2004	6:30	22.6	7.95	0.316	7.25
7/20/2004	7:00	22.6	7.95	0.317	7.25
7/20/2004	7:30	22.6	7.97	0.316	7.34
7/20/2004	8:00	22.7	7.98	0.316	7.46
7/20/2004	8:30	22.7	8.00	0.316	7.52
7/20/2004	9:00	22.8	8.01	0.316	7.65
7/20/2004	9:30	22.9	8.03	0.316	7.69
7/20/2004	10:00	23.0	8.05	0.315	7.75
7/20/2004	10:30	23.1	8.05	0.316	7.97
7/20/2004	11:00	23.2	8.05	0.317	8.06
7/20/2004	11:30	23.2	8.06	0.316	8.25
7/20/2004	12:00	23.2	8.07	0.316	8.32
7/20/2004	12:30	23.4	8.07	0.317	8.23
7/20/2004	13:00	23.2	8.07	0.316	8.24
7/20/2004	13:30	23.3	8.07	0.316	8.24
7/20/2004	14:00	23.3	8.07	0.316	8.27
7/20/2004	14:30	23.3	8.07	0.316	8.26
7/20/2004	15:00	23.3	8.07	0.316	8.23
7/20/2004	15:30	23.2	8.07	0.317	8.21
7/20/2004	16:00	23.3	8.07	0.317	8.13
7/20/2004	16:30	23.2	8.06	0.318	8.13
7/20/2004	17:00	23.2	8.05	0.318	8.07
7/20/2004	17:30	23.1	8.03	0.318	7.96
7/20/2004	18:00	23.1	8.02	0.319	7.90
7/20/2004	18:30	22.9	8.00	0.318	7.83
7/20/2004	19:00	22.9	7.98	0.317	7.71
7/20/2004	19:30	22.8	7.97	0.317	7.70
7/20/2004	20:00	22.8	7.95	0.319	7.60
7/20/2004	20:30	22.7	7.93	0.318	7.50
7/20/2004	21:00	22.7	7.91	0.319	7.44
7/20/2004	21:30	22.7	7.91	0.318	7.44
7/20/2004	22:00	22.8	7.93	0.319	7.49
7/20/2004	22:30	22.9	7.95	0.318	7.57
7/20/2004	23:00	23.1	7.98	0.318	7.69
7/20/2004	23:30	23.1	8.00	0.318	7.74

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/21/2004	0:00	23.2	8.01	0.317	7.75
7/21/2004	0:30	23.2	8.01	0.318	7.77
7/21/2004	1:00	23.2	8.01	0.318	7.75
7/21/2004	1:30	23.2	8.00	0.317	7.71
7/21/2004	2:00	23.2	8.01	0.318	7.63
7/21/2004	2:30	23.3	8.01	0.317	7.71
7/21/2004	3:00	23.3	8.01	0.318	7.69
7/21/2004	3:30	23.3	8.01	0.317	7.66
7/21/2004	4:00	23.2	8.00	0.317	7.65
7/21/2004	4:30	23.2	8.00	0.318	7.64
7/21/2004	5:00	23.3	7.99	0.318	7.58
7/21/2004	5:30	23.3	7.98	0.317	7.57
7/21/2004	6:00	23.3	7.97	0.318	7.54
7/21/2004	6:30	23.3	7.97	0.318	7.51
7/21/2004	7:00	23.3	7.97	0.318	7.46
7/21/2004	7:30	23.4	7.97	0.320	7.47
7/21/2004	8:00	23.4	7.98	0.319	7.58
7/21/2004	8:30	23.6	8.00	0.319	7.64
7/21/2004	9:00	23.7	8.05	0.320	7.67
7/21/2004	9:30	23.7	8.08	0.318	7.82
7/21/2004	10:00	23.8	8.08	0.319	7.83
7/21/2004	10:30	23.8	8.08	0.319	7.74
7/21/2004	11:00	23.8	8.01	0.322	7.57
7/21/2004	11:30	23.9	8.04	0.319	7.75
7/21/2004	12:00	24.0	8.05	0.319	7.77
7/21/2004	12:30	24.1	8.06	0.319	7.90
7/21/2004	13:00	24.1	8.08	0.318	7.91
7/21/2004	13:30	24.2	8.11	0.318	7.97
7/21/2004	14:00	24.4	8.14	0.317	8.11
7/21/2004	14:30	24.4	8.15	0.317	8.09
7/21/2004	15:00	24.4	8.15	0.318	8.04
7/21/2004	15:30	24.3	8.14	0.318	7.96
7/21/2004	16:00	24.3	8.13	0.318	7.94
7/21/2004	16:30	24.4	8.14	0.318	7.89
7/21/2004	17:00	24.4	8.17	0.317	8.00
7/21/2004	17:30	24.6	8.18	0.318	8.08
7/21/2004	18:00	24.7	8.19	0.317	8.12
7/21/2004	18:30	24.7	8.19	0.318	8.10
7/21/2004	19:00	24.6	8.19	0.317	8.04
7/21/2004	19:30	24.5	8.16	0.318	7.99
7/21/2004	20:00	24.5	8.14	0.319	7.93
7/21/2004	20:30	24.5	8.14	0.319	7.84
7/21/2004	21:00	24.5	8.13	0.318	7.82
7/21/2004	21:30	24.5	8.12	0.319	7.78
7/21/2004	22:00	24.5	8.11	0.319	7.74
7/21/2004	22:30	24.4	8.10	0.319	7.69
7/21/2004	23:00	24.4	8.08	0.319	7.58
7/21/2004	23:30	24.4	8.07	0.320	7.55

2004 Water Quality Study Tailwater Tabular Data for Month of July 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/22/2004	0:00	24.4	8.07	0.320	7.56
7/22/2004	0:30	24.4	8.08	0.320	7.55
7/22/2004	1:00	24.4	8.08	0.320	7.55
7/22/2004	1:30	24.4	8.08	0.320	7.54
7/22/2004	2:00	24.3	8.07	0.320	7.45
7/22/2004	2:30	24.3	8.06	0.319	7.41
7/22/2004	3:00	24.3	8.05	0.320	7.39
7/22/2004	3:30	24.3	8.05	0.320	7.38
7/22/2004	4:00	24.3	8.05	0.320	7.35
7/22/2004	4:30	24.3	8.06	0.321	7.31
7/22/2004	5:00	24.3	8.04	0.322	7.28
7/22/2004	5:30	24.2	8.04	0.321	7.27
7/22/2004	6:00	24.2	8.03	0.322	7.23
7/22/2004	6:30	24.2	8.03	0.321	7.24
7/22/2004	7:00	24.2	8.04	0.320	7.24
7/22/2004	7:30	24.2	8.03	0.323	7.24
7/22/2004	8:00	24.2	8.05	0.324	7.24
7/22/2004	8:30	24.3	8.05	0.324	7.30
7/22/2004	9:00	24.3	8.07	0.325	7.36
7/22/2004	9:30	24.4	8.09	0.324	7.42
7/22/2004	10:00	24.6	8.11	0.325	7.56
7/22/2004	10:30	24.7	8.13	0.325	7.61
7/22/2004	11:00	24.7	8.14	0.323	7.65
7/22/2004	11:30	24.8	8.15	0.323	7.67
7/22/2004	12:00	24.8	8.15	0.322	7.74
7/22/2004	12:30	24.9	8.16	0.322	7.68
7/22/2004	13:00	24.9	8.15	0.323	7.67
7/22/2004	13:30	24.8	8.13	0.323	7.50
7/22/2004	14:00	24.8	8.12	0.323	7.49
7/22/2004	14:30	24.8	8.13	0.323	7.53
7/22/2004	15:00	24.8	8.11	0.322	7.51
7/22/2004	15:30	24.8	8.12	0.321	7.44
7/22/2004	16:00	24.9	8.12	0.321	7.58
7/22/2004	16:30	24.9	8.13	0.321	7.75
7/22/2004	17:00	24.9	8.12	0.321	7.87
7/22/2004	17:30	24.8	8.11	0.321	7.78
7/22/2004	18:00	24.7	8.10	0.321	7.69
7/22/2004	18:30	24.7	8.09	0.321	7.63
7/22/2004	19:00	24.6	8.09	0.321	7.62
7/22/2004	19:30	24.5	8.08	0.321	7.59
7/22/2004	20:00	24.4	8.06	0.321	7.49
7/22/2004	20:30	24.3	8.05	0.321	7.40
7/22/2004	21:00	24.3	8.03	0.321	7.34
7/22/2004	21:30	24.2	8.01	0.321	7.25
7/22/2004	22:00	24.2	8.00	0.321	7.21
7/22/2004	22:30	24.1	7.99	0.322	7.13
7/22/2004	23:00	24.1	7.98	0.322	7.10
7/22/2004	23:30	24.0	7.97	0.322	7.04

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Tailwater Tabular Data for Month of July 2004					
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/23/2004	0:00	23.9	7.96	0.322	6.98
7/23/2004	0:30	23.9	7.95	0.322	6.99
7/23/2004	1:00	23.9	7.95	0.322	6.98
7/23/2004	1:30	23.8	7.95	0.322	6.94
7/23/2004	2:00	23.8	7.94	0.321	6.93
7/23/2004	2:30	23.8	7.94	0.321	6.95
7/23/2004	3:00	23.8	7.94	0.322	6.89
7/23/2004	3:30	23.7	7.94	0.322	6.90
7/23/2004	4:00	23.7	7.94	0.322	6.88
7/23/2004	4:30	23.7	7.94	0.322	6.82
7/23/2004	5:00	23.7	7.93	0.323	6.77
7/23/2004	5:30	23.6	7.93	0.323	6.78
7/23/2004	6:00	23.6	7.94	0.322	6.78
7/23/2004	6:30	23.6	7.94	0.323	6.79
7/23/2004	7:00	23.6	7.94	0.323	6.79
7/23/2004	7:30	23.6	7.96	0.323	6.82
7/23/2004	8:00	23.6	7.97	0.323	6.89
7/23/2004	8:30	23.7	7.99	0.323	6.95
7/23/2004	9:00	23.7	8.01	0.321	7.03
7/23/2004	9:30	23.8	8.02	0.323	7.07
7/23/2004	10:00	23.9	8.03	0.323	7.25
7/23/2004	10:30	23.9	8.04	0.322	7.31
7/23/2004	11:00	24.1	8.04	0.323	7.40
7/23/2004	11:30	24.1	8.04	0.322	7.43
7/23/2004	12:00	24.2	8.03	0.326	7.30
7/23/2004	12:30	24.2	8.02	0.323	7.30
7/23/2004	13:00	24.2	8.02	0.323	7.21
7/23/2004	13:30	24.1	8.01	0.322	7.28
7/23/2004	14:00	24.1	8.00	0.322	7.15
7/23/2004	14:30	24.1	8.01	0.322	7.30
7/23/2004	15:00	24.1	8.01	0.322	7.16
7/23/2004	15:30	24.1	8.01	0.322	7.22
7/23/2004	16:00	24.0	8.00	0.322	7.33
7/23/2004	16:30	24.0	8.00	0.323	7.41
7/23/2004	17:00	23.9	8.00	0.322	7.50
7/23/2004	17:30	23.9	8.01	0.323	7.58
7/23/2004	18:00	23.8	8.03	0.323	7.64
7/23/2004	18:30	23.7	8.03	0.324	7.62
7/23/2004	19:00	23.6	8.01	0.323	7.59
7/23/2004	19:30	23.5	8.00	0.322	7.52
7/23/2004	20:00	23.4	8.00	0.323	7.55
7/23/2004	20:30	23.4	7.99	0.324	7.53
7/23/2004	21:00	23.3	7.99	0.322	7.55
7/23/2004	21:30	23.4	8.00	0.322	7.62
7/23/2004	22:00	23.4	8.01	0.323	7.63
7/23/2004	22:30	23.4	8.01	0.323	7.59
7/23/2004	23:00	23.4	8.01	0.323	7.59
7/23/2004	23:30	23.3	8.00	0.323	7.61

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/24/2004	0:00	23.3	7.99	0.322	7.58
7/24/2004	0:30	23.3	7.99	0.324	7.61
7/24/2004	1:00	23.2	7.99	0.322	7.58
7/24/2004	1:30	23.3	7.99	0.323	7.58
7/24/2004	2:00	23.2	7.99	0.323	7.60
7/24/2004	2:30	23.2	8.00	0.324	7.60
7/24/2004	3:00	23.2	8.00	0.323	7.62
7/24/2004	3:30	23.2	7.99	0.323	7.61
7/24/2004	4:00	23.1	8.00	0.322	7.61
7/24/2004	4:30	23.1	7.98	0.324	7.56
7/24/2004	5:00	23.1	7.98	0.323	7.58
7/24/2004	5:30	23.1	7.97	0.323	7.54
7/24/2004	6:00	23.1	7.98	0.325	7.58
7/24/2004	6:30	23.0	7.98	0.324	7.59
7/24/2004	7:00	23.0	7.98	0.324	7.62
7/24/2004	7:30	23.1	7.98	0.325	7.65
7/24/2004	8:00	23.1	7.98	0.324	7.65
7/24/2004	8:30	23.1	7.99	0.324	7.69
7/24/2004	9:00	23.1	7.99	0.324	7.76
7/24/2004	9:30	23.1	8.00	0.323	7.75
7/24/2004	10:00	23.1	8.00	0.323	7.72
7/24/2004	10:30	23.2	8.00	0.323	7.77
7/24/2004	11:00	23.2	8.00	0.323	7.81
7/24/2004	11:30	23.3	8.01	0.324	7.80
7/24/2004	12:00	23.3	8.00	0.324	7.78
7/24/2004	12:30	23.3	8.00	0.323	7.83
7/24/2004	13:00	23.3	8.01	0.323	7.89
7/24/2004	13:30	23.3	8.02	0.324	7.90
7/24/2004	14:00	23.3	8.03	0.323	7.84
7/24/2004	14:30	23.2	8.03	0.323	7.91
7/24/2004	15:00	23.2	8.02	0.324	7.80
7/24/2004	15:30	23.1	8.02	0.324	7.87
7/24/2004	16:00	23.1	8.02	0.322	7.87
7/24/2004	16:30	23.0	8.02	0.323	7.81
7/24/2004	17:00	22.9	8.01	0.323	7.79
7/24/2004	17:30	22.8	8.01	0.324	7.80
7/24/2004	18:00	22.8	8.03	0.322	7.82
7/24/2004	18:30	22.8	8.04	0.324	7.83
7/24/2004	19:00	22.8	8.05	0.323	7.84
7/24/2004	19:30	22.7	8.05	0.323	7.84
7/24/2004	20:00	22.7	8.04	0.323	7.83
7/24/2004	20:30	22.6	8.04	0.322	7.78
7/24/2004	21:00	22.6	8.02	0.323	7.73
7/24/2004	21:30	22.6	8.01	0.322	7.71
7/24/2004	22:00	22.5	8.00	0.323	7.68
7/24/2004	22:30	22.6	8.00	0.325	7.63
7/24/2004	23:00	22.6	8.01	0.324	7.61
7/24/2004	23:30	22.6	8.01	0.324	7.63

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/25/2004	0:00	22.6	8.02	0.322	7.61
7/25/2004	0:30	22.6	8.02	0.323	7.61
7/25/2004	1:00	22.5	8.02	0.323	7.54
7/25/2004	1:30	22.5	8.02	0.322	7.58
7/25/2004	2:00	22.4	8.02	0.323	7.56
7/25/2004	2:30	22.4	8.02	0.324	7.51
7/25/2004	3:00	22.4	8.02	0.323	7.54
7/25/2004	3:30	22.4	8.02	0.323	7.47
7/25/2004	4:00	22.4	8.02	0.323	7.44
7/25/2004	4:30	22.3	8.01	0.323	7.47
7/25/2004	5:00	22.3	8.01	0.323	7.46
7/25/2004	5:30	22.3	8.01	0.324	7.41
7/25/2004	6:00	22.3	8.00	0.324	7.41
7/25/2004	6:30	22.2	8.01	0.322	7.37
7/25/2004	7:00	22.2	8.01	0.324	7.40
7/25/2004	7:30	22.3	8.01	0.323	7.39
7/25/2004	8:00	22.3	8.02	0.322	7.46
7/25/2004	8:30	22.4	8.04	0.323	7.54
7/25/2004	9:00	22.4	8.04	0.323	7.47
7/25/2004	9:30	22.6	8.04	0.325	7.42
7/25/2004	10:00	22.6	8.05	0.323	7.46
7/25/2004	10:30	22.7	8.05	0.323	7.48
7/25/2004	11:00	22.8	8.05	0.324	7.46
7/25/2004	11:30	22.8	8.05	0.324	7.40
7/25/2004	12:00	22.8	8.07	0.323	7.57
7/25/2004	12:30	22.9	8.08	0.323	7.49
7/25/2004	13:00	22.8	8.06	0.324	7.41
7/25/2004	13:30	22.6	8.06	0.323	7.44
7/25/2004	14:00	22.7	8.08	0.323	7.43
7/25/2004	14:30	22.7	8.08	0.324	7.48
7/25/2004	15:00	22.6	8.09	0.323	7.48
7/25/2004	15:30	22.6	8.09	0.324	7.42
7/25/2004	16:00	22.6	8.10	0.323	7.45
7/25/2004	16:30	22.6	8.10	0.324	7.42
7/25/2004	17:00	22.6	8.12	0.323	7.50
7/25/2004	17:30	22.6	8.13	0.323	7.43
7/25/2004	18:00	22.5	8.13	0.322	7.50
7/25/2004	18:30	22.3	8.12	0.324	7.47
7/25/2004	19:00	22.2	8.10	0.323	7.47
7/25/2004	19:30	22.1	8.08	0.323	7.41
7/25/2004	20:00	21.9	8.06	0.324	7.38
7/25/2004	20:30	21.8	8.04	0.324	7.23
7/25/2004	21:00	21.8	8.05	0.323	7.40
7/25/2004	21:30	21.8	8.05	0.324	7.38
7/25/2004	22:00	21.8	8.06	0.324	7.31
7/25/2004	22:30	21.8	8.06	0.325	7.34
7/25/2004	23:00	21.8	8.07	0.323	7.37
7/25/2004	23:30	21.8	8.06	0.326	7.37

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/26/2004	0:00	21.8	8.07	0.324	7.39
7/26/2004	0:30	21.8	8.08	0.324	7.34
7/26/2004	1:00	21.8	8.08	0.323	7.35
7/26/2004	1:30	21.8	8.07	0.325	7.35
7/26/2004	2:00	21.8	8.07	0.324	7.34
7/26/2004	2:30	21.8	8.07	0.324	7.34
7/26/2004	3:00	21.8	8.07	0.323	7.37
7/26/2004	3:30	21.8	8.07	0.325	7.37
7/26/2004	4:00	21.7	8.07	0.324	7.30
7/26/2004	4:30	21.7	8.07	0.324	7.41
7/26/2004	5:00	21.7	8.07	0.324	7.38
7/26/2004	5:30	21.7	8.07	0.325	7.41
7/26/2004	6:00	21.6	8.05	0.326	7.31
7/26/2004	6:30	21.6	8.06	0.324	7.34
7/26/2004	7:00	21.6	8.06	0.325	7.39
7/26/2004	7:30	21.6	8.06	0.326	7.20
7/26/2004	8:00	21.7	8.08	0.324	7.53
7/26/2004	8:30	21.8	8.09	0.326	7.48
7/26/2004	9:00	21.9	8.10	0.325	7.55
7/26/2004	9:30	21.9	8.11	0.325	7.54
7/26/2004	10:00	22.1	8.12	0.324	7.59
7/26/2004	10:30	22.2	8.13	0.324	7.61
7/26/2004	11:00	22.3	8.14	0.324	7.62
7/26/2004	11:30	22.4	8.15	0.325	7.68
7/26/2004	12:00	22.5	8.16	0.324	7.70
7/26/2004	12:30	22.6	8.15	0.325	7.66
7/26/2004	13:00	22.7	8.16	0.325	7.64
7/26/2004	13:30	22.7	8.15	0.327	7.56
7/26/2004	14:00	22.7	8.15	0.327	7.60
7/26/2004	14:30	22.6	8.15	0.325	7.62
7/26/2004	15:00	22.6	8.15	0.326	7.58
7/26/2004	15:30	22.5	8.15	0.326	7.64
7/26/2004	16:00	22.4	8.14	0.326	7.63
7/26/2004	16:30	22.3	8.15	0.326	7.68
7/26/2004	17:00	22.2	8.14	0.327	7.66
7/26/2004	17:30	22.1	8.14	0.325	7.62
7/26/2004	18:00	22.0	8.13	0.325	7.70
7/26/2004	18:30	21.9	8.12	0.325	7.64
7/26/2004	19:00	21.8	8.11	0.326	7.59
7/26/2004	19:30	21.8	8.10	0.327	7.68
7/26/2004	20:00	21.7	8.10	0.327	7.73
7/26/2004	20:30	21.7	8.10	0.326	7.80
7/26/2004	21:00	21.7	8.11	0.327	7.61
7/26/2004	21:30	21.7	8.11	0.327	7.74
7/26/2004	22:00	21.7	8.12	0.327	7.71
7/26/2004	22:30	21.7	8.11	0.328	7.71
7/26/2004	23:00	21.7	8.12	0.326	7.77
7/26/2004	23:30	21.7	8.12	0.327	7.70

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Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/27/2004	0:00	21.7	8.12	0.326	7.80
7/27/2004	0:30	21.7	8.12	0.327	7.88
7/27/2004	1:00	21.6	8.11	0.327	7.84
7/27/2004	1:30	21.6	8.11	0.326	7.85
7/27/2004	2:00	21.6	8.11	0.328	7.84
7/27/2004	2:30	21.6	8.12	0.326	7.94
7/27/2004	3:00	21.6	8.11	0.328	7.88
7/27/2004	3:30	21.6	8.11	0.327	7.87
7/27/2004	4:00	21.6	8.11	0.327	7.90
7/27/2004	4:30	21.6	8.11	0.327	7.82
7/27/2004	5:00	21.6	8.11	0.328	7.81
7/27/2004	5:30	21.6	8.11	0.327	7.76
7/27/2004	6:00	21.6	8.11	0.326	7.89
7/27/2004	6:30	21.6	8.11	0.329	7.82
7/27/2004	7:00	21.6	8.10	0.327	7.88
7/27/2004	7:30	21.6	8.11	0.328	7.87
7/27/2004	8:00	21.6	8.12	0.327	7.92
7/27/2004	8:30	21.7	8.12	0.328	7.84
7/27/2004	9:00	21.8	8.13	0.328	7.95
7/27/2004	9:30	21.9	8.14	0.327	7.89
7/27/2004	10:00	21.9	8.15	0.327	7.90
7/27/2004	10:30	22.1	8.15	0.327	7.99
7/27/2004	11:00	22.2	8.17	0.327	7.92
7/27/2004	11:30	22.3	8.18	0.327	7.93
7/27/2004	12:00	22.4	8.18	0.328	7.91
7/27/2004	12:30	22.5	8.17	0.327	7.93
7/27/2004	13:00	22.6	8.17	0.329	7.85
7/27/2004	13:30	22.6	8.17	0.330	7.78
7/27/2004	14:00	22.7	8.17	0.329	7.82
7/27/2004	14:30	22.7	8.17	0.328	7.79
7/27/2004	15:00	22.8	8.18	0.328	7.78
7/27/2004	15:30	22.8	8.19	0.328	7.84
7/27/2004	16:00	22.8	8.18	0.329	7.70
7/27/2004	16:30	22.8	8.19	0.328	7.78
7/27/2004	17:00	22.9	8.20	0.328	7.81
7/27/2004	17:30	22.8	8.20	0.327	7.78
7/27/2004	18:00	22.7	8.19	0.328	7.78
7/27/2004	18:30	22.6	8.18	0.328	7.78
7/27/2004	19:00	22.4	8.18	0.329	7.73
7/27/2004	19:30	22.3	8.17	0.328	7.73
7/27/2004	20:00	22.2	8.16	0.328	7.74
7/27/2004	20:30	22.1	8.15	0.328	7.69
7/27/2004	21:00	22.1	8.14	0.330	7.63
7/27/2004	21:30	22.1	8.13	0.329	7.64
7/27/2004	22:00	22.2	8.12	0.329	7.64
7/27/2004	22:30	22.2	8.12	0.330	7.57
7/27/2004	23:00	22.2	8.11	0.329	7.57
7/27/2004	23:30	22.2	8.11	0.329	7.69

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/28/2004	0:00	22.2	8.11	0.330	7.69
7/28/2004	0:30	22.2	8.10	0.330	7.69
7/28/2004	1:00	22.2	8.10	0.330	7.65
7/28/2004	1:30	22.1	8.09	0.329	7.64
7/28/2004	2:00	22.1	8.09	0.329	7.59
7/28/2004	2:30	22.1	8.08	0.330	7.61
7/28/2004	3:00	22.1	8.08	0.330	7.55
7/28/2004	3:30	22.1	8.08	0.330	7.62
7/28/2004	4:00	22.2	8.09	0.330	7.53
7/28/2004	4:30	22.2	8.10	0.331	7.59
7/28/2004	5:00	22.3	8.10	0.330	7.52
7/28/2004	5:30	22.3	8.10	0.330	7.54
7/28/2004	6:00	22.3	8.10	0.331	7.57
7/28/2004	6:30	22.3	8.10	0.331	7.52
7/28/2004	7:00	22.3	8.10	0.330	7.64
7/28/2004	7:30	22.3	8.11	0.330	7.66
7/28/2004	8:00	22.4	8.12	0.328	7.77
7/28/2004	8:30	22.4	8.13	0.329	7.79
7/28/2004	9:00	22.5	8.13	0.329	7.70
7/28/2004	9:30	22.6	8.14	0.330	7.83
7/28/2004	10:00	22.7	8.15	0.331	7.75
7/28/2004	10:30	22.8	8.15	0.330	7.88
7/28/2004	11:00	22.9	8.16	0.330	7.82
7/28/2004	11:30	22.9	8.17	0.330	7.90
7/28/2004	12:00	23.1	8.17	0.330	7.82
7/28/2004	12:30	23.1	8.17	0.330	7.77
7/28/2004	13:00	23.2	8.17	0.330	7.81
7/28/2004	13:30	23.2	8.17	0.331	7.82
7/28/2004	14:00	23.2	8.16	0.330	7.78
7/28/2004	14:30	23.2	8.17	0.330	7.84
7/28/2004	15:00	23.2	8.18	0.330	7.81
7/28/2004	15:30	23.3	8.18	0.332	7.82
7/28/2004	16:00	23.3	8.19	0.331	7.74
7/28/2004	16:30	23.3	8.19	0.331	7.74
7/28/2004	17:00	23.4	8.19	0.332	7.63
7/28/2004	17:30	23.4	8.19	0.332	7.62
7/28/2004	18:00	23.3	8.18	0.331	7.69
7/28/2004	18:30	23.3	8.18	0.330	7.65
7/28/2004	19:00	23.3	8.18	0.332	7.58
7/28/2004	19:30	23.3	8.16	0.332	7.44
7/28/2004	20:00	23.3	8.16	0.331	7.53
7/28/2004	20:30	23.3	8.15	0.332	7.35
7/28/2004	21:00	23.3	8.13	0.332	7.40
7/28/2004	21:30	23.2	8.12	0.332	7.34
7/28/2004	22:00	23.1	8.11	0.332	7.58
7/28/2004	22:30	23.1	8.10	0.332	7.54
7/28/2004	23:00	23.0	8.09	0.334	7.55
7/28/2004	23:30	22.9	8.09	0.332	7.57

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Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/29/2004	0:00	22.9	8.08	0.333	7.62
7/29/2004	0:30	22.9	8.08	0.333	7.62
7/29/2004	1:00	22.9	8.08	0.333	7.60
7/29/2004	1:30	22.9	8.08	0.332	7.60
7/29/2004	2:00	22.9	8.08	0.333	7.56
7/29/2004	2:30	22.8	8.08	0.333	7.55
7/29/2004	3:00	22.8	8.08	0.332	7.59
7/29/2004	3:30	22.8	8.07	0.332	7.62
7/29/2004	4:00	22.8	8.07	0.333	7.54
7/29/2004	4:30	22.8	8.06	0.333	7.56
7/29/2004	5:00	22.8	8.05	0.333	7.57
7/29/2004	5:30	22.7	8.05	0.333	7.57
7/29/2004	6:00	22.7	8.05	0.333	7.61
7/29/2004	6:30	22.7	8.05	0.333	7.56
7/29/2004	7:00	22.7	8.05	0.333	7.56
7/29/2004	7:30	22.7	8.05	0.333	7.61
7/29/2004	8:00	22.6	8.05	0.333	7.73
7/29/2004	8:30	22.7	8.05	0.335	7.83
7/29/2004	9:00	22.7	8.05	0.333	7.77
7/29/2004	9:30	22.7	8.05	0.334	7.83
7/29/2004	10:00	22.8	8.06	0.333	7.86
7/29/2004	10:30	22.9	8.06	0.336	7.90
7/29/2004	11:00	22.8	8.07	0.333	7.90
7/29/2004	11:30	22.9	8.08	0.333	7.92
7/29/2004	12:00	22.9	8.07	0.334	7.78
7/29/2004	12:30	23.0	8.07	0.334	7.82
7/29/2004	13:00	22.9	8.06	0.335	7.70
7/29/2004	13:30	22.9	8.06	0.335	7.70
7/29/2004	14:00	22.9	8.05	0.335	7.66
7/29/2004	14:30	22.9	8.07	0.334	7.77
7/29/2004	15:00	22.9	8.07	0.334	7.70
7/29/2004	15:30	23.0	8.07	0.335	7.70
7/29/2004	16:00	23.1	8.09	0.334	7.72
7/29/2004	16:30	23.2	8.11	0.334	7.73
7/29/2004	17:00	23.2	8.10	0.335	7.65
7/29/2004	17:30	23.2	8.10	0.335	7.59
7/29/2004	18:00	23.2	8.10	0.334	7.64
7/29/2004	18:30	23.2	8.08	0.335	7.57
7/29/2004	19:00	23.2	8.10	0.334	7.58
7/29/2004	19:30	23.2	8.10	0.335	7.42
7/29/2004	20:00	23.2	8.09	0.334	7.35
7/29/2004	20:30	23.1	8.08	0.335	7.26
7/29/2004	21:00	23.1	8.08	0.335	7.27
7/29/2004	21:30	23.1	8.08	0.336	7.25
7/29/2004	22:00	23.1	8.07	0.334	7.25
7/29/2004	22:30	23.1	8.07	0.335	7.24
7/29/2004	23:00	23.0	8.07	0.335	7.25
7/29/2004	23:30	22.9	8.06	0.335	7.22

2004 Water Quality Study Tallwater Tabular Data for Month of July 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/30/2004	0:00	22.9	8.05	0.334	7.21
7/30/2004	0:30	22.9	8.04	0.334	7.18
7/30/2004	1:00	22.8	8.03	0.336	7.18
7/30/2004	1:30	22.8	8.03	0.335	7.19
7/30/2004	2:00	22.8	8.03	0.337	7.18
7/30/2004	2:30	22.8	8.03	0.335	7.22
7/30/2004	3:00	22.7	8.03	0.336	7.22
7/30/2004	3:30	22.7	8.03	0.334	7.23
7/30/2004	4:00	22.7	8.03	0.334	7.23
7/30/2004	4:30	22.7	8.04	0.336	7.23
7/30/2004	5:00	22.7	8.05	0.336	7.28
7/30/2004	5:30	22.7	8.04	0.336	7.28
7/30/2004	6:00	22.7	8.05	0.337	7.32
7/30/2004	6:30	22.7	8.05	0.339	7.34
7/30/2004	7:00	22.7	8.05	0.337	7.41
7/30/2004	7:30	22.7	8.05	0.339	7.39
7/30/2004	8:00	22.7	8.05	0.340	7.45
7/30/2004	8:30	22.7	8.06	0.337	7.52
7/30/2004	9:00	22.8	8.07	0.338	7.58
7/30/2004	9:30	22.8	8.08	0.336	7.62
7/30/2004	10:00	22.9	8.08	0.338	7.64
7/30/2004	10:30	23.0	8.07	0.337	7.67
7/30/2004	11:00	23.1	8.07	0.339	7.63
7/30/2004	11:30	23.2	8.06	0.338	7.60
7/30/2004	12:00	23.1	8.06	0.335	7.58
7/30/2004	12:30	23.0	8.05	0.336	7.51
7/30/2004	13:00	22.9	8.04	0.337	7.43
7/30/2004	13:30	22.8	8.03	0.337	7.37
7/30/2004	14:00	22.8	8.03	0.339	7.45
7/30/2004	14:30	22.9	8.03	0.342	7.48
7/30/2004	15:00	22.8	8.06	0.336	7.44
7/30/2004	15:30	22.9	8.05	0.337	7.48
7/30/2004	16:00	22.8	8.03	0.336	7.32
7/30/2004	16:30	22.7	8.00	0.338	7.18
7/30/2004	17:00	22.6	7.98	0.338	7.11
7/30/2004	17:30	22.5	7.97	0.338	7.03
7/30/2004	18:00	22.4	7.99	0.337	7.12
7/30/2004	18:30	22.4	7.99	0.336	7.14
7/30/2004	19:00	22.4	8.01	0.337	7.09
7/30/2004	19:30	22.4	8.01	0.336	6.99
7/30/2004	20:00	22.4	8.01	0.337	7.00
7/30/2004	20:30	22.4	8.01	0.337	6.86
7/30/2004	21:00	22.4	8.00	0.337	6.87
7/30/2004	21:30	22.4	8.01	0.336	6.87
7/30/2004	22:00	22.4	8.01	0.337	6.88
7/30/2004	22:30	22.4	8.02	0.336	6.75
7/30/2004	23:00	22.5	8.03	0.337	6.79
7/30/2004	23:30	22.5	8.04	0.337	6.80

2004 Water Quality Study
Tailwater Tabular Data for Month of July 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
7/31/2004	0:00	22.5	8.04	0.336	6.80
7/31/2004	0:30	22.6	8.04	0.337	6.72
7/31/2004	1:00	22.6	8.04	0.338	6.68
7/31/2004	1:30	22.6	8.04	0.336	6.65
7/31/2004	2:00	22.6	8.05	0.337	6.59
7/31/2004	2:30	22.6	8.05	0.336	6.54
7/31/2004	3:00	22.6	8.05	0.336	6.57
7/31/2004	3:30	22.6	8.05	0.335	6.61
7/31/2004	4:00	22.6	8.06	0.336	6.57
7/31/2004	4:30	22.6	8.06	0.336	6.53
7/31/2004	5:00	22.6	8.07	0.335	6.56
7/31/2004	5:30	22.6	8.07	0.336	6.55
7/31/2004	6:00	22.6	8.07	0.336	6.47
7/31/2004	6:30	22.6	8.08	0.336	6.53
7/31/2004	7:00	22.6	8.08	0.336	6.53
7/31/2004	7:30	22.7	8.10	0.336	6.14
7/31/2004	8:00	22.7	8.11	0.335	6.17
7/31/2004	8:30	22.8	8.13	0.335	6.76
7/31/2004	9:00	22.8	8.15	0.335	6.76
7/31/2004	9:30	22.9	8.17	0.335	6.92
7/31/2004	10:00	22.9	8.18	0.335	6.90
7/31/2004	10:30	23.1	8.20	0.336	6.96
7/31/2004	11:00	23.1	8.20	0.336	6.79
7/31/2004	11:30	23.3	8.22	0.335	6.95
7/31/2004	12:00	23.3	8.22	0.336	6.90
7/31/2004	12:30	23.5	8.23	0.335	7.00
7/31/2004	13:00	23.6	8.24	0.335	7.00
7/31/2004	13:30	23.6	8.23	0.335	6.81
7/31/2004	14:00	23.6	8.23	0.336	6.77
7/31/2004	14:30	23.6	8.23	0.335	6.72
7/31/2004	15:00	23.6	8.24	0.335	6.72
7/31/2004	15:30	23.7	8.24	0.336	6.81
7/31/2004	16:00	23.7	8.23	0.336	6.70
7/31/2004	16:30	23.7	8.23	0.340	6.63
7/31/2004	17:00	23.7	8.24	0.335	6.76
7/31/2004	17:30	23.7	8.24	0.335	6.76
7/31/2004	18:00	23.7	8.22	0.335	6.63
7/31/2004	18:30	23.6	8.21	0.335	6.59
7/31/2004	19:00	23.5	8.19	0.336	6.60
7/31/2004	19:30	23.4	8.16	0.336	6.55
7/31/2004	20:00	23.3	8.14	0.336	6.50
7/31/2004	20:30	23.2	8.13	0.336	6.51
7/31/2004	21:00	23.2	8.12	0.336	6.42
7/31/2004	21:30	23.1	8.11	0.336	6.49
7/31/2004	22:00	23.1	8.10	0.336	6.54
7/31/2004	22:30	23.1	8.10	0.339	6.48
7/31/2004	23:00	23.0	8.09	0.337	6.51
7/31/2004	23:30	22.9	8.09	0.336	6.57

APPENDIX B

August 2004 Sampling Data

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: AUGUST 5, 2004

Pre-Sampling Data:

Time: 5:10 pm Barometer: 30.20 Air Temp: 22.2 °C Wind Speed: From NW @ 7-12

Cloud Cover: 15% clouds

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.32 volts

YSI Calibration Time: 5:15 pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.58 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	5:20pm	6.85	22.6
1 meter	5:22pm	6.75	22.6
2 meter	5:24pm	6.75	22.6
3 meter	5:26pm	6.70	22.6
100 mm above bottom	5:28 pm	6.65	22.6

Hach D.O. Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	5:35pm	6.7	22.5

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Sam R. Giff

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: August 13, 2004

Pre-Sampling Data:

Time: 5:30pm Barometer: 30.14 Air Temp: 20.0 °C Wind Speed: FRM E @ 5-7

Cloud Cover: Mostly Sunny

Precipitation within Last 24 Hours: None

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.30 volts

YSI Calibration Time: 5:35pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.58 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/L)	Temperature
100 mm below surface	5:38 pm	8.15	18.2
1 meter	5:40 pm	8.05	18.2
2 meter	5:42 pm	8.05	18.2
3 meter	5:44 pm	8.05	18.2
100 mm above bottom	5:46 pm	8.00	18.2

Hach D.O. Sample Data

Depth	Time	D.O. (mg/L)	Temperature
100 mm below surface	5:50 pm	8	18.2

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Goff

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: August 19, 2004

Pre-Sampling Data:

Time: 3:50pm Barometer: 29.95 Air Temp: 20.0 °C Wind Speed: FRM SW @ 10-15

Cloud Cover: CLEAR

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.28 volts

YSI Calibration Time: 3:53pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.59 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	<u>3:54pm</u>	<u>8.85</u>	<u>21.0</u>
1 meter	<u>3:56pm</u>	<u>8.55</u>	<u>20.5</u>
2 meter	<u>3:58pm</u>	<u>8.40</u>	<u>20.2</u>
3 meter	<u>4:00pm</u>	<u>8.25</u>	<u>20.1</u>
100 mm above bottom	<u>4:02pm</u>	<u>8.25</u>	<u>20.1</u>

Hach D.O. Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	<u>4:07pm</u>	<u>8-9</u>	<u>21.1</u>

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. O'Connell

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: August 28, 2004

Pre-Sampling Data:

Time: 3:00pm Barometer: 30.09 Air Temp: 9.6 °C Wind Speed: From N @ 7-10

Cloud Cover: MOSTLY CLOUDY

Precipitation within Last 24 Hours: None

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.27 volts

YSI Calibration Time: 3:03pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.60 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/L)	Temperature
100 mm below surface	3:05pm	8.65	20.0
1 meter	3:07pm	8.35	19.5
2 meter	3:09pm	8.30	19.5
3 meter	3:11pm	8.15	19.2
100 mm above bottom	3:13pm	8.15	19.0

Hach D.O. Sample Data

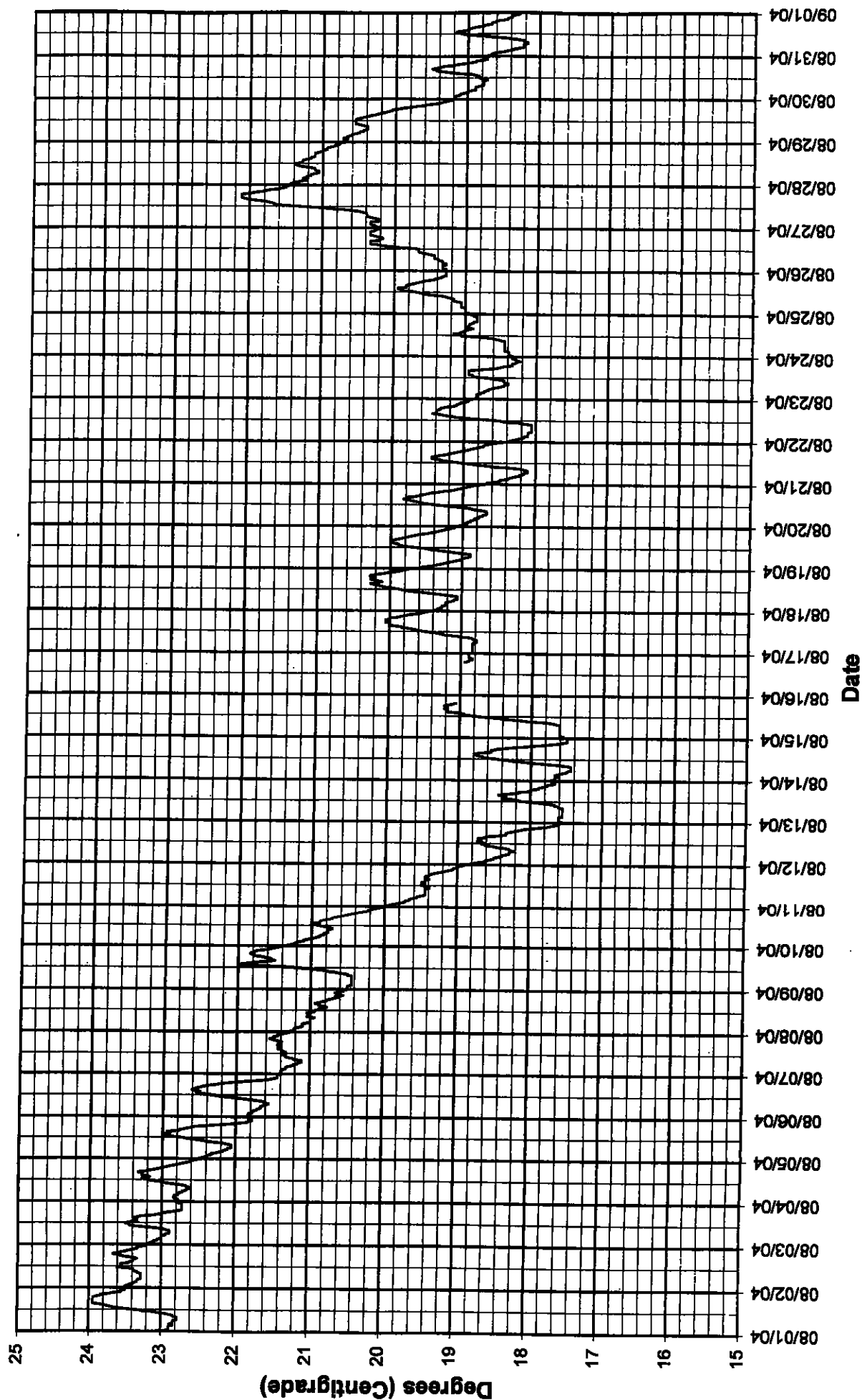
Depth	Time	D.O. (mg/L)	Temperature
100 mm below surface	3:17pm	8-9	20.1

Comments: _____

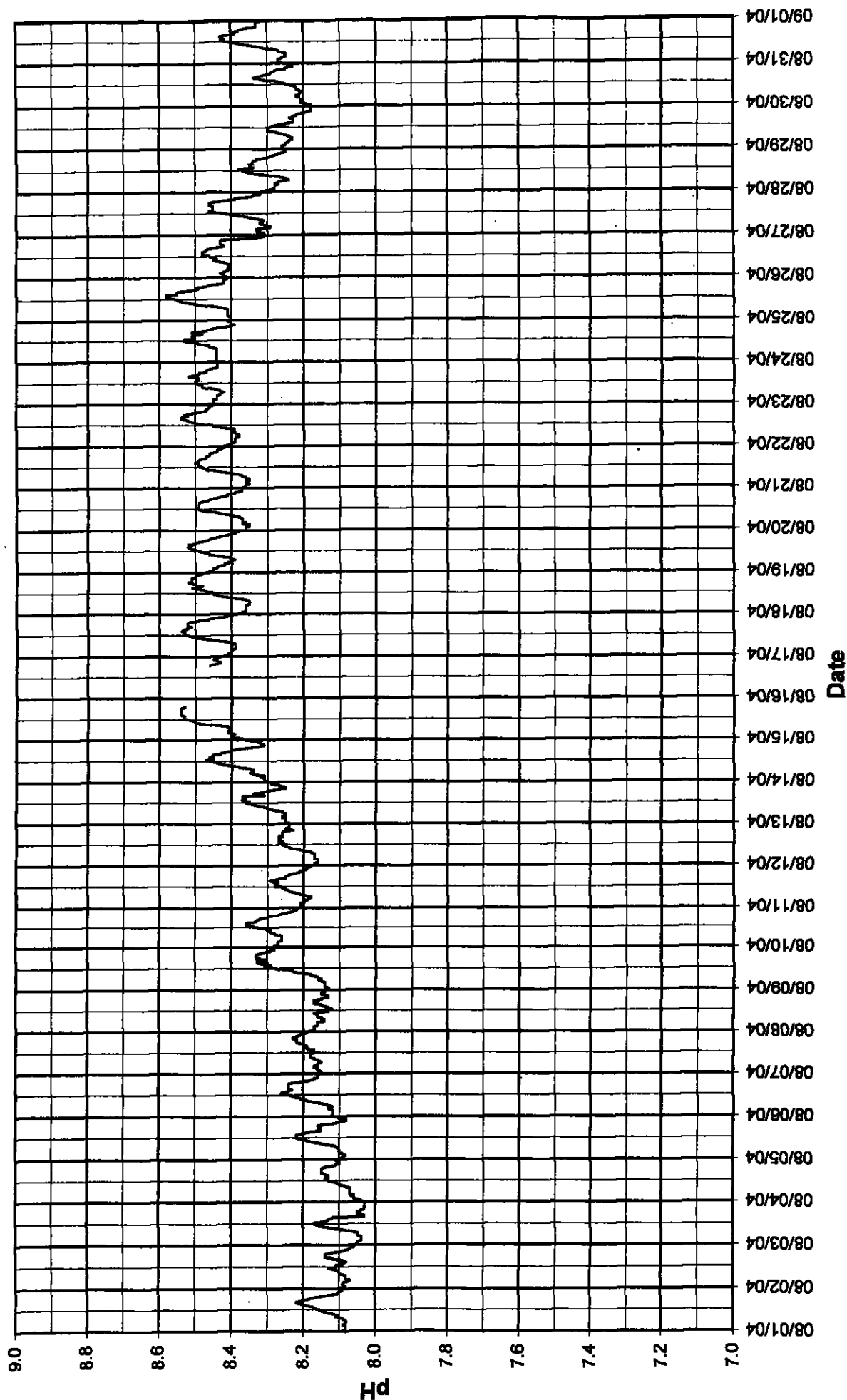
Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Sam R. Chaffin

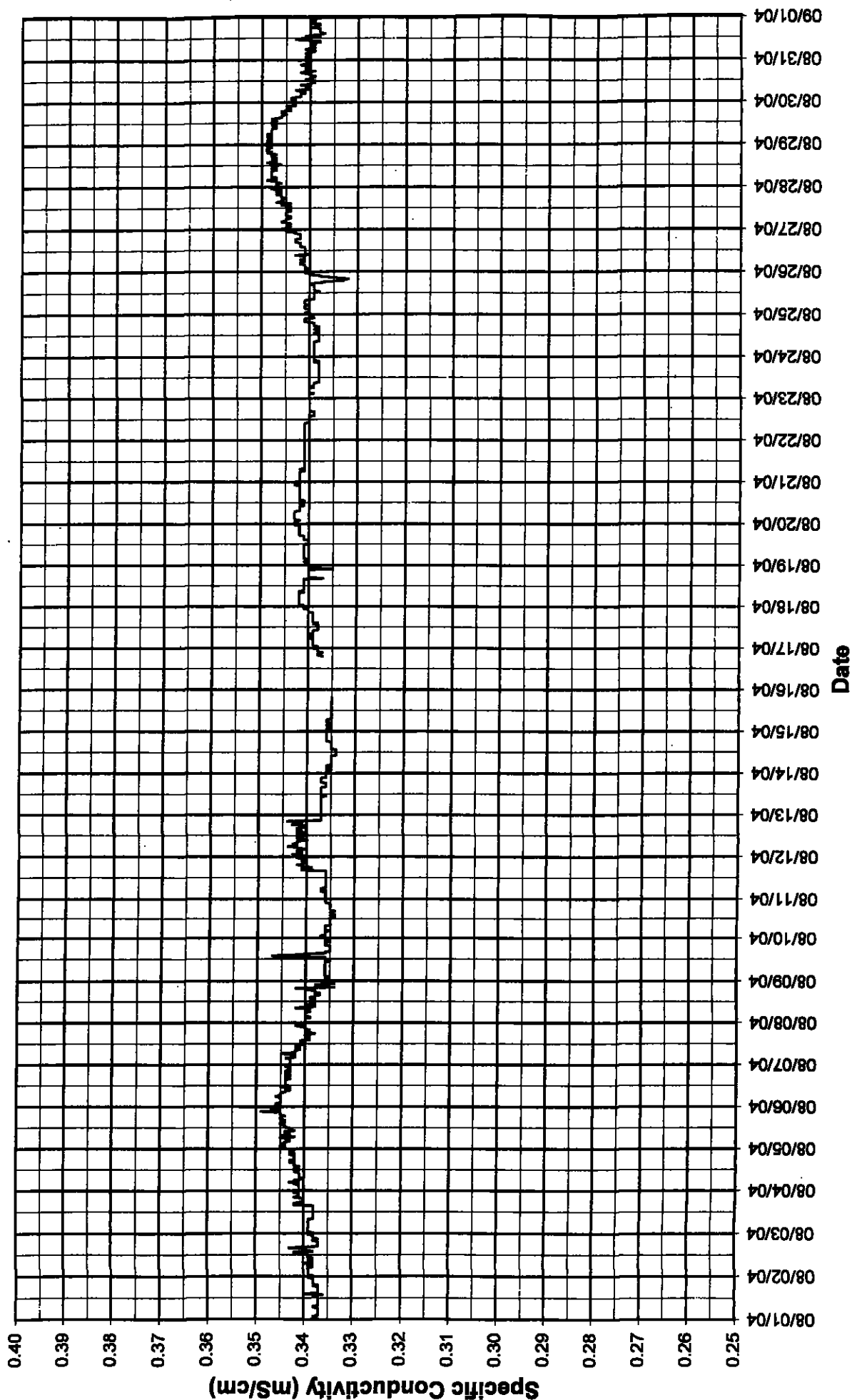
**2004 Water Quality Study
Tailwater Temperature Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



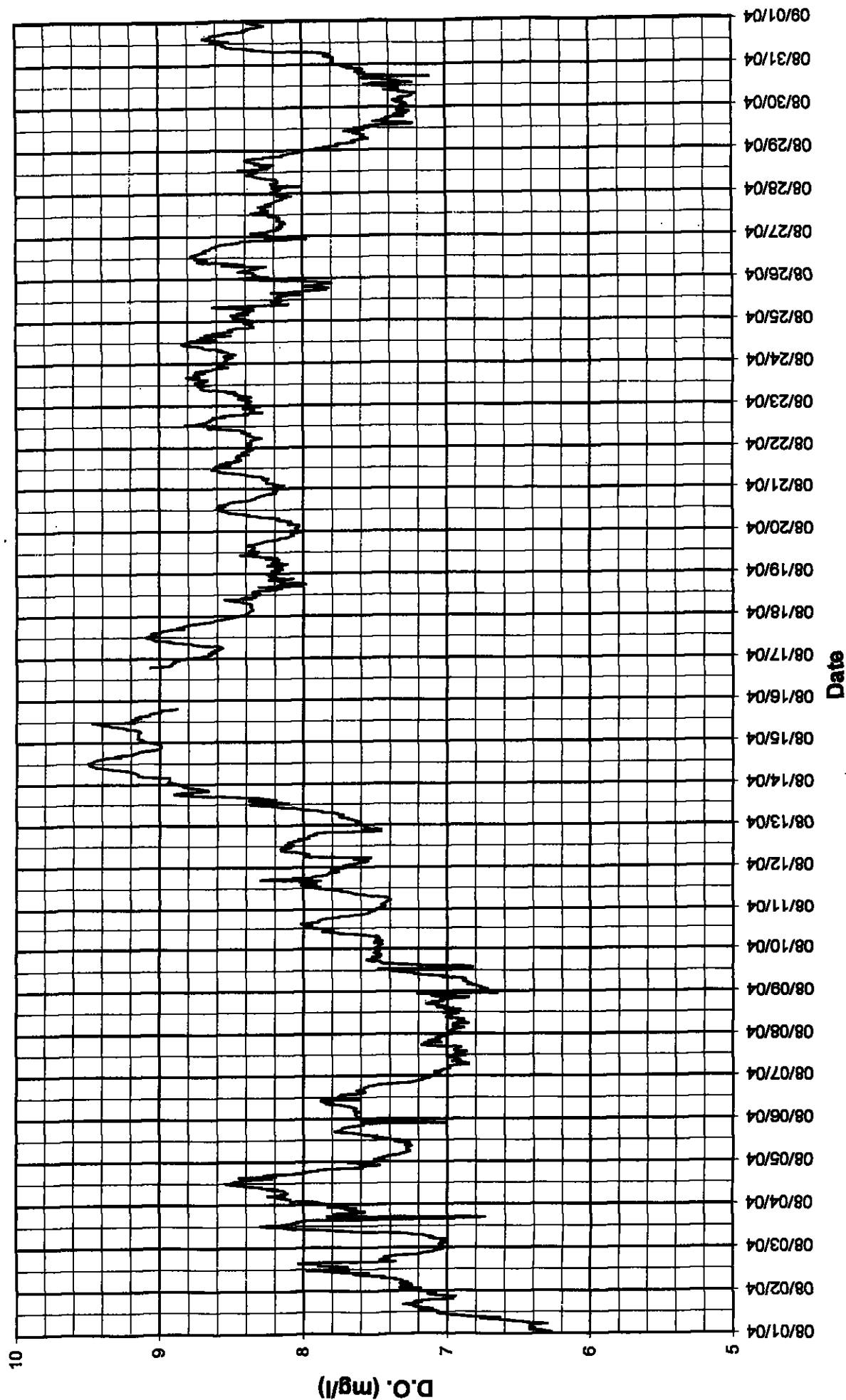
**2004 Water Quality Study
Tailwater pH Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



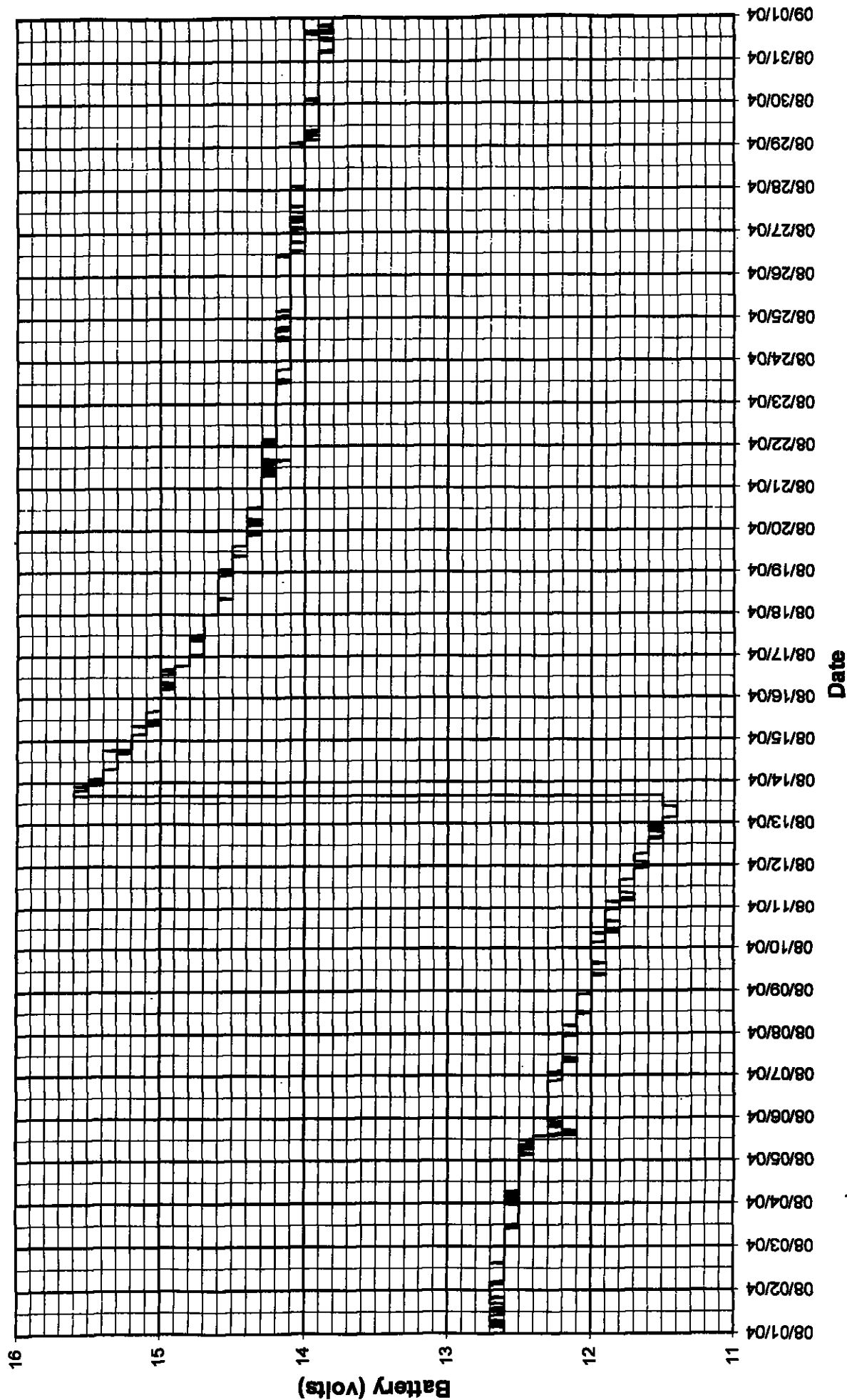
**2004 Water Quality Study
Tailwater Specific Conductivity Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



2004 Water Quality Study
Tailwater Dissolved Oxygen Sampling (mg/l)
Oconto Falls (Lower) - FERC Project No. 2689



**2004 Water Quality Study
Tailwater Hydrolab Recorder Battery Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/1/2004	0:00	22.94	8.09	0.34	6.38
8/1/2004	0:30	22.89	8.08	0.34	6.27
8/1/2004	1:00	22.89	8.08	0.34	6.32
8/1/2004	1:30	22.89	8.08	0.34	6.37
8/1/2004	2:00	22.89	8.08	0.34	6.43
8/1/2004	2:30	22.89	8.08	0.34	6.39
8/1/2004	3:00	22.83	8.09	0.34	6.41
8/1/2004	3:30	22.89	8.09	0.34	6.43
8/1/2004	4:00	22.83	8.08	0.34	6.40
8/1/2004	4:30	22.83	8.08	0.34	6.40
8/1/2004	5:00	22.83	8.08	0.34	6.30
8/1/2004	5:30	22.83	8.08	0.34	6.44
8/1/2004	6:00	22.78	8.08	0.34	6.43
8/1/2004	6:30	22.78	8.09	0.34	6.53
8/1/2004	7:00	22.78	8.09	0.34	6.57
8/1/2004	7:30	22.78	8.10	0.34	6.65
8/1/2004	8:00	22.83	8.11	0.34	6.77
8/1/2004	8:30	22.83	8.10	0.34	6.63
8/1/2004	9:00	22.89	8.11	0.34	6.83
8/1/2004	9:30	22.94	8.12	0.34	6.92
8/1/2004	10:00	23.06	8.13	0.34	6.96
8/1/2004	10:30	23.11	8.14	0.34	7.05
8/1/2004	11:00	23.28	8.15	0.34	7.07
8/1/2004	11:30	23.28	8.15	0.34	7.06
8/1/2004	12:00	23.44	8.16	0.34	7.06
8/1/2004	12:30	23.56	8.17	0.34	7.08
8/1/2004	13:00	23.67	8.17	0.34	7.20
8/1/2004	13:30	23.72	8.18	0.34	7.10
8/1/2004	14:00	23.78	8.19	0.34	7.17
8/1/2004	14:30	23.83	8.20	0.34	7.22
8/1/2004	15:00	23.94	8.21	0.34	7.24
8/1/2004	15:30	23.94	8.22	0.34	7.22
8/1/2004	16:00	23.94	8.22	0.34	7.31
8/1/2004	16:30	23.94	8.21	0.34	7.25
8/1/2004	17:00	23.94	8.20	0.34	7.18
8/1/2004	17:30	23.94	8.19	0.34	7.23
8/1/2004	18:00	23.94	8.18	0.34	7.18
8/1/2004	18:30	23.94	8.17	0.34	7.11
8/1/2004	19:00	23.89	8.16	0.34	6.96
8/1/2004	19:30	23.83	8.14	0.34	7.01
8/1/2004	20:00	23.83	8.13	0.34	6.96
8/1/2004	20:30	23.72	8.11	0.34	6.94
8/1/2004	21:00	23.67	8.10	0.34	7.04
8/1/2004	21:30	23.56	8.10	0.34	7.12
8/1/2004	22:00	23.56	8.10	0.34	7.14
8/1/2004	22:30	23.50	8.09	0.34	7.12
8/1/2004	23:00	23.50	8.09	0.34	7.08
8/1/2004	23:30	23.50	8.09	0.34	7.19

2004 Water Quality Study Tailwater Tabular Data for Month of August 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/2/2004	0:00	23.50	8.10	0.34	7.24
8/2/2004	0:30	23.50	8.09	0.34	7.22
8/2/2004	1:00	23.44	8.08	0.34	7.18
8/2/2004	1:30	23.44	8.09	0.34	7.33
8/2/2004	2:00	23.39	8.09	0.34	7.26
8/2/2004	2:30	23.39	8.09	0.34	7.24
8/2/2004	3:00	23.33	8.09	0.34	7.32
8/2/2004	3:30	23.33	8.08	0.34	7.25
8/2/2004	4:00	23.33	8.07	0.34	7.33
8/2/2004	4:30	23.28	8.07	0.34	7.27
8/2/2004	5:00	23.28	8.08	0.34	7.32
8/2/2004	5:30	23.28	8.08	0.34	7.31
8/2/2004	6:00	23.28	8.08	0.34	7.36
8/2/2004	6:30	23.28	8.08	0.34	7.35
8/2/2004	7:00	23.28	8.08	0.34	7.46
8/2/2004	7:30	23.28	8.09	0.34	7.43
8/2/2004	8:00	23.33	8.10	0.34	7.49
8/2/2004	8:30	23.33	8.10	0.34	7.62
8/2/2004	9:00	23.39	8.10	0.34	7.65
8/2/2004	9:30	23.39	8.10	0.34	7.54
8/2/2004	10:00	23.39	8.11	0.34	7.80
8/2/2004	10:30	23.44	8.12	0.34	7.81
8/2/2004	11:00	23.61	8.13	0.34	7.98
8/2/2004	11:30	23.56	8.11	0.34	7.68
8/2/2004	12:00	23.56	8.11	0.34	7.73
8/2/2004	12:30	23.56	8.11	0.34	7.71
8/2/2004	13:00	23.56	8.09	0.34	7.69
8/2/2004	13:30	23.44	8.10	0.34	7.90
8/2/2004	14:00	23.44	8.09	0.34	7.88
8/2/2004	14:30	23.39	8.08	0.34	7.90
8/2/2004	15:00	23.39	8.10	0.34	8.04
8/2/2004	15:30	23.39	8.09	0.34	7.89
8/2/2004	16:00	23.33	8.12	0.34	7.36
8/2/2004	16:30	23.39	8.12	0.34	7.43
8/2/2004	17:00	23.50	8.14	0.34	7.47
8/2/2004	17:30	23.56	8.14	0.34	7.42
8/2/2004	18:00	23.61	8.14	0.34	7.40
8/2/2004	18:30	23.67	8.14	0.34	7.44
8/2/2004	19:00	23.61	8.13	0.34	7.39
8/2/2004	19:30	23.56	8.12	0.34	7.35
8/2/2004	20:00	23.50	8.10	0.34	7.21
8/2/2004	20:30	23.44	8.09	0.34	7.18
8/2/2004	21:00	23.39	8.08	0.34	7.16
8/2/2004	21:30	23.33	8.07	0.34	7.10
8/2/2004	22:00	23.33	8.07	0.34	7.09
8/2/2004	22:30	23.28	8.06	0.34	7.06
8/2/2004	23:00	23.22	8.06	0.34	7.03
8/2/2004	23:30	23.22	8.06	0.34	7.03

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Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/3/2004	0:00	23.17	8.05	0.34	7.05
8/3/2004	0:30	23.17	8.05	0.34	7.03
8/3/2004	1:00	23.11	8.05	0.34	7.03
8/3/2004	1:30	23.11	8.05	0.34	7.06
8/3/2004	2:00	23.06	8.04	0.34	7.04
8/3/2004	2:30	23.06	8.04	0.34	7.01
8/3/2004	3:00	23.00	8.04	0.34	7.05
8/3/2004	3:30	23.00	8.04	0.34	7.03
8/3/2004	4:00	23.00	8.04	0.34	7.01
8/3/2004	4:30	23.00	8.04	0.34	7.10
8/3/2004	5:00	22.94	8.05	0.34	7.13
8/3/2004	5:30	22.94	8.05	0.34	7.10
8/3/2004	6:00	22.89	8.05	0.34	7.15
8/3/2004	6:30	22.89	8.05	0.34	7.17
8/3/2004	7:00	22.89	8.06	0.34	7.26
8/3/2004	7:30	22.89	8.07	0.34	7.29
8/3/2004	8:00	22.94	8.08	0.34	7.46
8/3/2004	8:30	23.00	8.10	0.34	7.65
8/3/2004	9:00	23.11	8.12	0.34	7.78
8/3/2004	9:30	23.22	8.13	0.34	7.84
8/3/2004	10:00	23.39	8.15	0.34	8.01
8/3/2004	10:30	23.44	8.16	0.34	8.11
8/3/2004	11:00	23.44	8.16	0.34	8.10
8/3/2004	11:30	23.50	8.17	0.34	8.25
8/3/2004	12:00	23.44	8.17	0.34	8.30
8/3/2004	12:30	23.39	8.15	0.34	8.15
8/3/2004	13:00	23.33	8.14	0.34	8.12
8/3/2004	13:30	23.33	8.13	0.34	8.04
8/3/2004	14:00	23.39	8.13	0.34	8.07
8/3/2004	14:30	23.39	8.12	0.34	8.02
8/3/2004	15:00	23.33	8.12	0.34	7.98
8/3/2004	15:30	23.28	8.03	0.34	7.21
8/3/2004	16:00	23.11	8.03	0.34	6.86
8/3/2004	16:30	23.06	8.04	0.34	6.74
8/3/2004	17:00	23.00	8.05	0.34	7.84
8/3/2004	17:30	22.94	8.05	0.34	7.74
8/3/2004	18:00	22.83	8.05	0.34	7.79
8/3/2004	18:30	22.78	8.04	0.34	7.77
8/3/2004	19:00	22.72	8.04	0.34	7.63
8/3/2004	19:30	22.72	8.03	0.34	7.57
8/3/2004	20:00	22.72	8.03	0.34	7.64
8/3/2004	20:30	22.72	8.03	0.34	7.68
8/3/2004	21:00	22.72	8.03	0.34	7.71
8/3/2004	21:30	22.72	8.03	0.34	7.63
8/3/2004	22:00	22.72	8.03	0.34	7.83
8/3/2004	22:30	22.72	8.03	0.34	7.80
8/3/2004	23:00	22.78	8.03	0.34	7.77
8/3/2004	23:30	22.78	8.03	0.34	7.79

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Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/4/2004	0:00	22.78	8.04	0.34	7.86
8/4/2004	0:30	22.78	8.04	0.34	7.89
8/4/2004	1:00	22.78	8.05	0.34	7.91
8/4/2004	1:30	22.83	8.06	0.34	8.09
8/4/2004	2:00	22.83	8.06	0.34	8.09
8/4/2004	2:30	22.83	8.06	0.34	8.09
8/4/2004	3:00	22.83	8.07	0.34	8.14
8/4/2004	3:30	22.78	8.06	0.34	8.18
8/4/2004	4:00	22.78	8.07	0.34	8.13
8/4/2004	4:30	22.78	8.07	0.34	8.25
8/4/2004	5:00	22.72	8.07	0.34	8.13
8/4/2004	5:30	22.72	8.07	0.34	8.16
8/4/2004	6:00	22.67	8.07	0.34	8.11
8/4/2004	6:30	22.67	8.07	0.34	8.13
8/4/2004	7:00	22.61	8.07	0.34	8.13
8/4/2004	7:30	22.61	8.07	0.34	8.14
8/4/2004	8:00	22.67	8.08	0.34	8.25
8/4/2004	8:30	22.67	8.08	0.34	8.18
8/4/2004	9:00	22.72	8.09	0.34	8.29
8/4/2004	9:30	22.83	8.10	0.34	8.29
8/4/2004	10:00	22.94	8.10	0.34	8.38
8/4/2004	10:30	23.00	8.11	0.34	8.43
8/4/2004	11:00	23.06	8.12	0.34	8.50
8/4/2004	11:30	23.17	8.13	0.34	8.54
8/4/2004	12:00	23.22	8.13	0.34	8.47
8/4/2004	12:30	23.28	8.14	0.34	8.49
8/4/2004	13:00	23.22	8.14	0.34	8.44
8/4/2004	13:30	23.17	8.13	0.34	8.43
8/4/2004	14:00	23.22	8.13	0.34	8.35
8/4/2004	14:30	23.28	8.13	0.34	8.22
8/4/2004	15:00	23.28	8.14	0.34	8.45
8/4/2004	15:30	23.28	8.14	0.34	8.19
8/4/2004	16:00	23.33	8.15	0.34	8.28
8/4/2004	16:30	23.22	8.15	0.34	8.23
8/4/2004	17:00	23.17	8.15	0.34	8.02
8/4/2004	17:30	23.11	8.15	0.34	7.99
8/4/2004	18:00	23.06	8.15	0.34	7.97
8/4/2004	18:30	23.00	8.15	0.34	7.90
8/4/2004	19:00	22.94	8.14	0.34	7.90
8/4/2004	19:30	22.89	8.14	0.34	7.81
8/4/2004	20:00	22.83	8.12	0.34	7.59
8/4/2004	20:30	22.78	8.11	0.34	7.59
8/4/2004	21:00	22.72	8.11	0.34	7.61
8/4/2004	21:30	22.67	8.10	0.34	7.47
8/4/2004	22:00	22.61	8.10	0.34	7.56
8/4/2004	22:30	22.61	8.10	0.34	7.56
8/4/2004	23:00	22.56	8.11	0.34	7.69
8/4/2004	23:30	22.50	8.10	0.34	7.51

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Tailwater Tabular Data for Month of August 2004					
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/5/2004	0:00	22.50	8.10	0.35	7.42
8/5/2004	0:30	22.44	8.09	0.35	7.51
8/5/2004	1:00	22.39	8.09	0.34	7.51
8/5/2004	1:30	22.39	8.09	0.35	7.44
8/5/2004	2:00	22.33	8.08	0.34	7.45
8/5/2004	2:30	22.33	8.09	0.35	7.41
8/5/2004	3:00	22.28	8.09	0.34	7.41
8/5/2004	3:30	22.22	8.10	0.34	7.34
8/5/2004	4:00	22.17	8.10	0.34	7.33
8/5/2004	4:30	22.17	8.10	0.34	7.30
8/5/2004	5:00	22.11	8.10	0.34	7.28
8/5/2004	5:30	22.11	8.10	0.34	7.26
8/5/2004	6:00	22.06	8.10	0.35	7.29
8/5/2004	6:30	22.06	8.11	0.34	7.27
8/5/2004	7:00	22.06	8.11	0.35	7.28
8/5/2004	7:30	22.06	8.12	0.34	7.29
8/5/2004	8:00	22.11	8.14	0.34	7.28
8/5/2004	8:30	22.17	8.15	0.34	7.25
8/5/2004	9:00	22.28	8.17	0.34	7.30
8/5/2004	9:30	22.39	8.18	0.34	7.26
8/5/2004	10:00	22.44	8.19	0.34	7.26
8/5/2004	10:30	22.56	8.20	0.34	7.34
8/5/2004	11:00	22.67	8.21	0.34	7.37
8/5/2004	11:30	22.72	8.22	0.34	7.33
8/5/2004	12:00	22.83	8.22	0.34	7.40
8/5/2004	12:30	22.89	8.22	0.34	7.41
8/5/2004	13:00	22.94	8.22	0.34	7.50
8/5/2004	13:30	23.00	8.21	0.35	7.52
8/5/2004	14:00	22.94	8.20	0.35	7.49
8/5/2004	14:30	22.89	8.19	0.35	7.59
8/5/2004	15:00	22.94	8.17	0.34	7.61
8/5/2004	15:30	22.78	8.15	0.35	7.65
8/5/2004	16:00	22.78	8.15	0.34	7.74
8/5/2004	16:30	22.72	8.16	0.35	7.78
8/5/2004	17:00	22.67	8.15	0.35	7.74
8/5/2004	17:30	22.61	8.15	0.35	7.73
8/5/2004	18:00	22.56	8.16	0.35	7.73
8/5/2004	18:30	22.39	8.16	0.34	7.72
8/5/2004	19:00	22.22	8.14	0.35	7.68
8/5/2004	19:30	22.06	8.12	0.35	7.63
8/5/2004	20:00	21.94	8.11	0.35	7.58
8/5/2004	20:30	21.83	8.10	0.35	7.58
8/5/2004	21:00	21.83	8.09	0.35	7.60
8/5/2004	21:30	21.78	8.08	0.35	7.00
8/5/2004	22:00	21.78	8.08	0.35	7.29
8/5/2004	22:30	21.83	8.10	0.35	7.59
8/5/2004	23:00	21.78	8.10	0.35	7.60
8/5/2004	23:30	21.83	8.11	0.35	7.60

2004 Water Quality Study Tailwater Tabular Data for Month of August 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/6/2004	0:00	21.83	8.12	0.35	7.62
8/6/2004	0:30	21.83	8.12	0.35	7.61
8/6/2004	1:00	21.83	8.12	0.35	7.63
8/6/2004	1:30	21.83	8.12	0.35	7.63
8/6/2004	2:00	21.78	8.12	0.35	7.63
8/6/2004	2:30	21.78	8.12	0.35	7.64
8/6/2004	3:00	21.78	8.12	0.35	7.64
8/6/2004	3:30	21.72	8.12	0.35	7.61
8/6/2004	4:00	21.72	8.13	0.35	7.64
8/6/2004	4:30	21.67	8.13	0.35	7.65
8/6/2004	5:00	21.67	8.13	0.35	7.64
8/6/2004	5:30	21.67	8.12	0.35	7.63
8/6/2004	6:00	21.61	8.13	0.35	7.66
8/6/2004	6:30	21.61	8.14	0.35	7.67
8/6/2004	7:00	21.56	8.15	0.35	7.71
8/6/2004	7:30	21.61	8.16	0.35	7.74
8/6/2004	8:00	21.61	8.18	0.34	7.84
8/6/2004	8:30	21.67	8.19	0.34	7.79
8/6/2004	9:00	21.78	8.20	0.34	7.85
8/6/2004	9:30	21.89	8.21	0.34	7.87
8/6/2004	10:00	22.00	8.21	0.34	7.88
8/6/2004	10:30	22.11	8.23	0.34	7.61
8/6/2004	11:00	22.22	8.23	0.35	7.65
8/6/2004	11:30	22.28	8.24	0.34	7.73
8/6/2004	12:00	22.39	8.26	0.34	7.76
8/6/2004	12:30	22.50	8.26	0.34	7.74
8/6/2004	13:00	22.56	8.26	0.34	7.74
8/6/2004	13:30	22.50	8.24	0.34	7.64
8/6/2004	14:00	22.56	8.24	0.34	7.59
8/6/2004	14:30	22.61	8.23	0.34	7.57
8/6/2004	15:00	22.56	8.24	0.34	7.60
8/6/2004	15:30	22.56	8.24	0.34	7.63
8/6/2004	16:00	22.50	8.24	0.34	7.58
8/6/2004	16:30	22.44	8.24	0.34	7.58
8/6/2004	17:00	22.39	8.24	0.34	7.58
8/6/2004	17:30	22.28	8.24	0.34	7.55
8/6/2004	18:00	22.22	8.24	0.34	7.55
8/6/2004	18:30	22.11	8.23	0.34	7.50
8/6/2004	19:00	21.94	8.21	0.34	7.42
8/6/2004	19:30	21.83	8.19	0.34	7.34
8/6/2004	20:00	21.67	8.18	0.34	7.26
8/6/2004	20:30	21.56	8.17	0.34	7.23
8/6/2004	21:00	21.50	8.17	0.34	7.21
8/6/2004	21:30	21.44	8.16	0.34	7.17
8/6/2004	22:00	21.44	8.16	0.34	7.18
8/6/2004	22:30	21.44	8.16	0.34	7.13
8/6/2004	23:00	21.44	8.16	0.34	7.12
8/6/2004	23:30	21.39	8.15	0.34	7.11

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Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp. (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/7/2004	0:00	21.39	8.15	0.34	7.09
8/7/2004	0:30	21.39	8.16	0.34	7.09
8/7/2004	1:00	21.39	8.15	0.34	7.05
8/7/2004	1:30	21.39	8.16	0.34	7.07
8/7/2004	2:00	21.39	8.16	0.34	7.09
8/7/2004	2:30	21.33	8.16	0.34	7.04
8/7/2004	3:00	21.33	8.17	0.34	7.04
8/7/2004	3:30	21.33	8.16	0.34	7.01
8/7/2004	4:00	21.28	8.17	0.34	6.98
8/7/2004	4:30	21.22	8.16	0.34	6.99
8/7/2004	5:00	21.22	8.16	0.34	7.00
8/7/2004	5:30	21.17	8.16	0.34	6.96
8/7/2004	6:00	21.17	8.15	0.35	6.85
8/7/2004	6:30	21.11	8.15	0.34	6.85
8/7/2004	7:00	21.11	8.16	0.34	6.88
8/7/2004	7:30	21.11	8.16	0.34	6.94
8/7/2004	8:00	21.22	8.17	0.34	6.97
8/7/2004	8:30	21.22	8.17	0.34	6.91
8/7/2004	9:00	21.28	8.18	0.34	6.95
8/7/2004	9:30	21.33	8.18	0.34	6.95
8/7/2004	10:00	21.33	8.18	0.34	6.93
8/7/2004	10:30	21.33	8.18	0.34	7.00
8/7/2004	11:00	21.39	8.18	0.34	6.87
8/7/2004	11:30	21.33	8.17	0.34	6.95
8/7/2004	12:00	21.33	8.18	0.34	6.88
8/7/2004	12:30	21.33	8.17	0.34	6.94
8/7/2004	13:00	21.39	8.17	0.34	6.89
8/7/2004	13:30	21.39	8.17	0.34	6.86
8/7/2004	14:00	21.39	8.19	0.34	6.95
8/7/2004	14:30	21.44	8.19	0.34	6.95
8/7/2004	15:00	21.44	8.20	0.34	6.93
8/7/2004	15:30	21.39	8.19	0.34	6.93
8/7/2004	16:00	21.39	8.20	0.34	6.90
8/7/2004	16:30	21.44	8.20	0.34	6.95
8/7/2004	17:00	21.44	8.21	0.34	7.12
8/7/2004	17:30	21.39	8.22	0.34	7.18
8/7/2004	18:00	21.39	8.22	0.34	7.11
8/7/2004	18:30	21.39	8.22	0.34	7.16
8/7/2004	19:00	21.44	8.22	0.34	7.04
8/7/2004	19:30	21.50	8.23	0.34	7.11
8/7/2004	20:00	21.56	8.23	0.34	7.13
8/7/2004	20:30	21.50	8.22	0.34	7.07
8/7/2004	21:00	21.50	8.22	0.34	7.05
8/7/2004	21:30	21.44	8.21	0.34	7.08
8/7/2004	22:00	21.44	8.21	0.34	7.04
8/7/2004	22:30	21.39	8.20	0.34	7.01
8/7/2004	23:00	21.33	8.19	0.34	7.01
8/7/2004	23:30	21.28	8.19	0.34	6.98

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Tallwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/8/2004	0:00	21.28	8.18	0.34	6.90
8/8/2004	0:30	21.22	8.17	0.34	6.97
8/8/2004	1:00	21.22	8.17	0.34	7.00
8/8/2004	1:30	21.22	8.17	0.34	6.96
8/8/2004	2:00	21.17	8.17	0.34	6.97
8/8/2004	2:30	21.11	8.17	0.34	6.92
8/8/2004	3:00	21.11	8.16	0.34	6.88
8/8/2004	3:30	21.11	8.16	0.34	6.95
8/8/2004	4:00	21.11	8.16	0.34	6.96
8/8/2004	4:30	21.06	8.16	0.34	6.96
8/8/2004	5:00	21.00	8.16	0.34	6.96
8/8/2004	5:30	21.00	8.14	0.34	6.85
8/8/2004	6:00	21.00	8.15	0.34	6.93
8/8/2004	6:30	21.00	8.14	0.34	6.90
8/8/2004	7:00	21.00	8.15	0.34	6.92
8/8/2004	7:30	20.94	8.15	0.34	6.88
8/8/2004	8:00	21.06	8.16	0.34	6.94
8/8/2004	8:30	21.00	8.16	0.34	6.99
8/8/2004	9:00	21.00	8.16	0.34	7.01
8/8/2004	9:30	21.00	8.16	0.34	6.98
8/8/2004	10:00	21.06	8.17	0.34	6.99
8/8/2004	10:30	21.00	8.16	0.34	6.96
8/8/2004	11:00	20.94	8.13	0.34	6.92
8/8/2004	11:30	20.94	8.15	0.34	7.03
8/8/2004	12:00	20.89	8.13	0.34	6.92
8/8/2004	12:30	20.89	8.12	0.34	6.91
8/8/2004	13:00	20.83	8.13	0.34	6.91
8/8/2004	13:30	20.78	8.13	0.34	7.02
8/8/2004	14:00	20.83	8.14	0.34	6.96
8/8/2004	14:30	20.89	8.15	0.34	7.07
8/8/2004	15:00	20.89	8.15	0.34	7.00
8/8/2004	15:30	20.94	8.17	0.34	7.08
8/8/2004	16:00	20.89	8.16	0.34	7.06
8/8/2004	16:30	20.83	8.17	0.34	7.15
8/8/2004	17:00	20.78	8.17	0.34	7.11
8/8/2004	17:30	20.78	8.17	0.34	7.11
8/8/2004	18:00	20.72	8.15	0.34	7.03
8/8/2004	18:30	20.67	8.15	0.34	7.03
8/8/2004	19:00	20.61	8.13	0.34	7.05
8/8/2004	19:30	20.67	8.14	0.34	6.88
8/8/2004	20:00	20.56	8.13	0.33	6.85
8/8/2004	20:30	20.61	8.14	0.34	7.08
8/8/2004	21:00	20.61	8.15	0.34	7.11
8/8/2004	21:30	20.67	8.15	0.34	6.98
8/8/2004	22:00	20.61	8.15	0.33	7.21
8/8/2004	22:30	20.56	8.14	0.33	6.65
8/8/2004	23:00	20.56	8.14	0.34	6.66
8/8/2004	23:30	20.50	8.14	0.34	6.71

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/9/2004	0:00	20.50	8.13	0.34	6.77
8/9/2004	0:30	20.50	8.13	0.34	6.77
8/9/2004	1:00	20.50	8.13	0.34	6.72
8/9/2004	1:30	20.50	8.14	0.34	6.77
8/9/2004	2:00	20.44	8.14	0.34	6.76
8/9/2004	2:30	20.44	8.14	0.34	6.79
8/9/2004	3:00	20.44	8.14	0.34	6.80
8/9/2004	3:30	20.44	8.14	0.34	6.86
8/9/2004	4:00	20.44	8.14	0.34	6.83
8/9/2004	4:30	20.44	8.15	0.34	6.85
8/9/2004	5:00	20.44	8.15	0.34	6.86
8/9/2004	5:30	20.44	8.16	0.34	6.89
8/9/2004	6:00	20.44	8.15	0.34	6.87
8/9/2004	6:30	20.44	8.16	0.34	6.87
8/9/2004	7:00	20.44	8.16	0.34	6.87
8/9/2004	7:30	20.44	8.17	0.34	6.95
8/9/2004	8:00	20.50	8.18	0.34	7.03
8/9/2004	8:30	20.50	8.18	0.34	6.99
8/9/2004	9:00	20.61	8.20	0.34	7.07
8/9/2004	9:30	20.67	8.22	0.34	7.19
8/9/2004	10:00	20.78	8.23	0.34	7.23
8/9/2004	10:30	20.83	8.23	0.34	7.23
8/9/2004	11:00	20.94	8.25	0.34	7.33
8/9/2004	11:30	21.11	8.27	0.34	7.39
8/9/2004	12:00	21.28	8.28	0.34	7.37
8/9/2004	12:30	21.44	8.29	0.34	7.48
8/9/2004	13:00	21.94	8.31	0.34	6.91
8/9/2004	13:30	22.00	8.29	0.35	6.82
8/9/2004	14:00	21.89	8.30	0.34	6.90
8/9/2004	14:30	21.78	8.32	0.34	7.15
8/9/2004	15:00	21.61	8.33	0.34	7.31
8/9/2004	15:30	21.50	8.30	0.34	7.45
8/9/2004	16:00	21.56	8.30	0.34	7.46
8/9/2004	16:30	21.56	8.30	0.34	7.47
8/9/2004	17:00	21.61	8.33	0.34	7.53
8/9/2004	17:30	21.67	8.32	0.34	7.56
8/9/2004	18:00	21.78	8.33	0.34	7.52
8/9/2004	18:30	21.78	8.33	0.34	7.47
8/9/2004	19:00	21.83	8.33	0.34	7.52
8/9/2004	19:30	21.83	8.33	0.34	7.46
8/9/2004	20:00	21.78	8.32	0.34	7.46
8/9/2004	20:30	21.78	8.31	0.34	7.47
8/9/2004	21:00	21.72	8.30	0.34	7.48
8/9/2004	21:30	21.61	8.29	0.34	7.51
8/9/2004	22:00	21.56	8.29	0.34	7.49
8/9/2004	22:30	21.50	8.28	0.34	7.47
8/9/2004	23:00	21.44	8.28	0.34	7.49
8/9/2004	23:30	21.39	8.28	0.34	7.48

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Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/10/2004	0:00	21.33	8.28	0.34	7.51
8/10/2004	0:30	21.28	8.28	0.34	7.48
8/10/2004	1:00	21.22	8.28	0.34	7.48
8/10/2004	1:30	21.22	8.27	0.34	7.47
8/10/2004	2:00	21.17	8.27	0.34	7.45
8/10/2004	2:30	21.11	8.27	0.34	7.47
8/10/2004	3:00	21.11	8.27	0.34	7.50
8/10/2004	3:30	21.06	8.26	0.34	7.51
8/10/2004	4:00	21.00	8.26	0.34	7.45
8/10/2004	4:30	20.94	8.26	0.34	7.50
8/10/2004	5:00	20.89	8.26	0.34	7.48
8/10/2004	5:30	20.89	8.26	0.34	7.47
8/10/2004	6:00	20.83	8.26	0.34	7.49
8/10/2004	6:30	20.83	8.26	0.34	7.48
8/10/2004	7:00	20.83	8.27	0.34	7.53
8/10/2004	7:30	20.78	8.28	0.34	7.57
8/10/2004	8:00	20.78	8.28	0.34	7.64
8/10/2004	8:30	20.78	8.29	0.34	7.76
8/10/2004	9:00	20.78	8.29	0.34	7.76
8/10/2004	9:30	20.72	8.30	0.34	7.87
8/10/2004	10:00	20.72	8.30	0.34	7.86
8/10/2004	10:30	20.78	8.29	0.34	7.79
8/10/2004	11:00	20.83	8.31	0.34	7.84
8/10/2004	11:30	20.89	8.32	0.34	7.88
8/10/2004	12:00	20.94	8.34	0.34	7.97
8/10/2004	12:30	20.94	8.34	0.33	7.94
8/10/2004	13:00	21.00	8.36	0.33	8.00
8/10/2004	13:30	20.89	8.35	0.34	7.94
8/10/2004	14:00	20.89	8.35	0.34	8.00
8/10/2004	14:30	20.89	8.36	0.33	8.02
8/10/2004	15:00	20.83	8.34	0.34	7.95
8/10/2004	15:30	20.78	8.33	0.34	7.90
8/10/2004	16:00	20.72	8.33	0.34	7.89
8/10/2004	16:30	20.72	8.33	0.33	7.90
8/10/2004	17:00	20.67	8.32	0.34	7.88
8/10/2004	17:30	20.61	8.32	0.34	7.87
8/10/2004	18:00	20.56	8.30	0.34	7.81
8/10/2004	18:30	20.50	8.30	0.34	7.75
8/10/2004	19:00	20.44	8.29	0.34	7.78
8/10/2004	19:30	20.39	8.27	0.34	7.67
8/10/2004	20:00	20.33	8.26	0.34	7.64
8/10/2004	20:30	20.28	8.25	0.34	7.59
8/10/2004	21:00	20.22	8.24	0.34	7.56
8/10/2004	21:30	20.22	8.23	0.34	7.54
8/10/2004	22:00	20.17	8.23	0.34	7.55
8/10/2004	22:30	20.11	8.22	0.34	7.52
8/10/2004	23:00	20.06	8.22	0.34	7.49
8/10/2004	23:30	20.00	8.22	0.34	7.51

2004 Water Quality Study Tailwater Tabular Data for Month of August 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/11/2004	0:00	20.00	8.21	0.34	7.48
8/11/2004	0:30	19.94	8.21	0.34	7.47
8/11/2004	1:00	19.89	8.21	0.34	7.46
8/11/2004	1:30	19.83	8.20	0.34	7.43
8/11/2004	2:00	19.78	8.20	0.34	7.45
8/11/2004	2:30	19.72	8.21	0.34	7.46
8/11/2004	3:00	19.72	8.20	0.34	7.44
8/11/2004	3:30	19.67	8.20	0.34	7.43
8/11/2004	4:00	19.67	8.19	0.34	7.42
8/11/2004	4:30	19.61	8.19	0.34	7.41
8/11/2004	5:00	19.56	8.19	0.34	7.39
8/11/2004	5:30	19.56	8.18	0.34	7.40
8/11/2004	6:00	19.50	8.18	0.34	7.40
8/11/2004	6:30	19.44	8.19	0.34	7.42
8/11/2004	7:00	19.44	8.20	0.34	7.49
8/11/2004	7:30	19.44	8.21	0.34	7.55
8/11/2004	8:00	19.44	8.22	0.34	7.57
8/11/2004	8:30	19.44	8.23	0.34	7.64
8/11/2004	9:00	19.44	8.24	0.34	7.66
8/11/2004	9:30	19.44	8.24	0.34	7.68
8/11/2004	10:00	19.44	8.25	0.34	7.74
8/11/2004	10:30	19.39	8.25	0.34	7.73
8/11/2004	11:00	19.39	8.26	0.34	7.80
8/11/2004	11:30	19.44	8.26	0.34	7.88
8/11/2004	12:00	19.50	8.28	0.34	7.92
8/11/2004	12:30	19.50	8.27	0.34	7.88
8/11/2004	13:00	19.44	8.27	0.34	7.98
8/11/2004	13:30	19.50	8.28	0.34	8.02
8/11/2004	14:00	19.44	8.27	0.34	7.94
8/11/2004	14:30	19.44	8.28	0.34	7.91
8/11/2004	15:00	19.44	8.29	0.34	7.99
8/11/2004	15:30	19.39	8.29	0.34	8.03
8/11/2004	16:00	19.44	8.27	0.34	7.88
8/11/2004	16:30	19.44	8.25	0.34	8.30
8/11/2004	17:00	19.44	8.25	0.34	8.23
8/11/2004	17:30	19.39	8.25	0.34	7.94
8/11/2004	18:00	19.39	8.24	0.34	7.94
8/11/2004	18:30	19.33	8.24	0.34	7.91
8/11/2004	19:00	19.28	8.23	0.34	7.84
8/11/2004	19:30	19.22	8.22	0.34	7.84
8/11/2004	20:00	19.17	8.21	0.34	7.82
8/11/2004	20:30	19.11	8.21	0.34	7.82
8/11/2004	21:00	19.06	8.20	0.34	7.75
8/11/2004	21:30	19.06	8.19	0.34	7.77
8/11/2004	22:00	19.00	8.19	0.34	7.81
8/11/2004	22:30	19.00	8.19	0.34	7.77
8/11/2004	23:00	18.94	8.18	0.34	7.73
8/11/2004	23:30	18.89	8.18	0.34	7.70

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/12/2004	0:00	18.83	8.17	0.34	7.68
8/12/2004	0:30	18.78	8.17	0.34	7.72
8/12/2004	1:00	18.72	8.17	0.34	7.68
8/12/2004	1:30	18.61	8.16	0.34	7.63
8/12/2004	2:00	18.61	8.16	0.34	7.62
8/12/2004	2:30	18.56	8.16	0.34	7.57
8/12/2004	3:00	18.50	8.16	0.34	7.55
8/12/2004	3:30	18.50	8.17	0.34	7.59
8/12/2004	4:00	18.44	8.17	0.34	7.65
8/12/2004	4:30	18.39	8.17	0.34	7.57
8/12/2004	5:00	18.39	8.17	0.34	7.53
8/12/2004	5:30	18.33	8.17	0.34	7.98
8/12/2004	6:00	18.28	8.17	0.34	8.00
8/12/2004	6:30	18.28	8.17	0.34	7.96
8/12/2004	7:00	18.28	8.18	0.34	7.96
8/12/2004	7:30	18.22	8.18	0.34	8.01
8/12/2004	8:00	18.28	8.20	0.34	8.05
8/12/2004	8:30	18.28	8.21	0.34	8.09
8/12/2004	9:00	18.33	8.22	0.34	8.15
8/12/2004	9:30	18.44	8.24	0.34	8.16
8/12/2004	10:00	18.50	8.24	0.34	8.16
8/12/2004	10:30	18.61	8.25	0.34	8.16
8/12/2004	11:00	18.61	8.25	0.34	8.09
8/12/2004	11:30	18.67	8.26	0.34	8.12
8/12/2004	12:00	18.61	8.25	0.34	8.07
8/12/2004	12:30	18.72	8.26	0.34	8.13
8/12/2004	13:00	18.72	8.27	0.34	8.08
8/12/2004	13:30	18.67	8.26	0.34	8.11
8/12/2004	14:00	18.72	8.27	0.34	8.11
8/12/2004	14:30	18.72	8.27	0.34	8.06
8/12/2004	15:00	18.61	8.27	0.34	8.02
8/12/2004	15:30	18.61	8.27	0.34	8.04
8/12/2004	16:00	18.44	8.26	0.34	7.96
8/12/2004	16:30	18.33	8.27	0.34	7.96
8/12/2004	17:00	18.33	8.26	0.34	7.97
8/12/2004	17:30	18.33	8.26	0.34	7.95
8/12/2004	18:00	18.28	8.26	0.34	7.91
8/12/2004	18:30	18.22	8.26	0.34	7.93
8/12/2004	19:00	18.17	8.26	0.34	7.91
8/12/2004	19:30	18.11	8.25	0.34	7.84
8/12/2004	20:00	18.06	8.23	0.34	7.46
8/12/2004	20:30	17.89	8.25	0.34	7.59
8/12/2004	21:00	17.78	8.25	0.34	7.46
8/12/2004	21:30	17.72	8.24	0.34	7.52
8/12/2004	22:00	17.67	8.24	0.34	7.58
8/12/2004	22:30	17.61	8.24	0.34	7.57
8/12/2004	23:00	17.61	8.24	0.34	7.56
8/12/2004	23:30	17.56	8.24	0.34	7.57

2004 Water Quality Study Tailwater Tabular Data for Month of August 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/13/2004	0:00	17.56	8.24	0.34	7.60
8/13/2004	0:30	17.61	8.25	0.34	7.64
8/13/2004	1:00	17.61	8.25	0.34	7.63
8/13/2004	1:30	17.61	8.25	0.34	7.61
8/13/2004	2:00	17.61	8.25	0.34	7.63
8/13/2004	2:30	17.61	8.25	0.34	7.65
8/13/2004	3:00	17.56	8.26	0.34	7.69
8/13/2004	3:30	17.56	8.25	0.34	7.68
8/13/2004	4:00	17.56	8.26	0.34	7.74
8/13/2004	4:30	17.56	8.25	0.34	7.75
8/13/2004	5:00	17.56	8.25	0.34	7.72
8/13/2004	5:30	17.56	8.25	0.34	7.72
8/13/2004	6:00	17.56	8.26	0.34	7.77
8/13/2004	6:30	17.56	8.26	0.34	7.76
8/13/2004	7:00	17.56	8.27	0.34	7.87
8/13/2004	7:30	17.56	8.28	0.34	7.87
8/13/2004	8:00	17.56	8.29	0.34	7.92
8/13/2004	8:30	17.61	8.30	0.34	8.00
8/13/2004	9:00	17.61	8.30	0.34	8.04
8/13/2004	9:30	17.67	8.32	0.34	8.06
8/13/2004	10:00	17.67	8.33	0.34	8.16
8/13/2004	10:30	17.78	8.34	0.34	8.19
8/13/2004	11:00	17.89	8.35	0.34	8.27
8/13/2004	11:30	18.00	8.36	0.34	8.37
8/13/2004	12:00	18.17	8.36	0.34	8.34
8/13/2004	12:30	18.17	8.35	0.34	8.10
8/13/2004	13:00	18.22	8.37	0.34	8.26
8/13/2004	13:30	18.39	8.37	0.34	8.36
8/13/2004	14:00	18.39	8.37	0.34	8.38
8/13/2004	14:30	18.33	8.36	0.34	8.19
8/13/2004	15:00	18.39	8.36	0.34	8.27
8/13/2004	15:30	18.44	8.37	0.34	8.30
8/13/2004	16:00	18.33	8.31	0.34	8.45
8/13/2004	16:30	18.17	8.34	0.34	8.58
8/13/2004	17:00	18.17	8.34	0.34	8.75
8/13/2004	17:30	18.06	8.32	0.34	8.85
8/13/2004	18:00	18.00	8.31	0.34	8.90
8/13/2004	18:30	18.00	8.30	0.34	8.88
8/13/2004	19:00	17.89	8.29	0.34	8.80
8/13/2004	19:30	17.89	8.27	0.34	8.73
8/13/2004	20:00	17.83	8.25	0.34	8.66
8/13/2004	20:30	17.78	8.25	0.34	8.67
8/13/2004	21:00	17.78	8.26	0.34	8.72
8/13/2004	21:30	17.72	8.27	0.34	8.78
8/13/2004	22:00	17.67	8.27	0.34	8.81
8/13/2004	22:30	17.67	8.29	0.34	8.84
8/13/2004	23:00	17.67	8.28	0.34	8.82
8/13/2004	23:30	17.72	8.29	0.34	8.87

2004 Water Quality Study
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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/14/2004	0:00	17.72	8.30	0.34	8.87
8/14/2004	0:30	17.67	8.31	0.34	8.90
8/14/2004	1:00	17.67	8.31	0.34	8.94
8/14/2004	1:30	17.67	8.31	0.34	8.93
8/14/2004	2:00	17.61	8.31	0.34	8.93
8/14/2004	2:30	17.67	8.32	0.34	8.93
8/14/2004	3:00	17.67	8.32	0.34	8.93
8/14/2004	3:30	17.61	8.31	0.34	8.93
8/14/2004	4:00	17.56	8.34	0.34	9.11
8/14/2004	4:30	17.50	8.34	0.34	9.14
8/14/2004	5:00	17.50	8.35	0.34	9.15
8/14/2004	5:30	17.44	8.34	0.34	9.15
8/14/2004	6:00	17.44	8.34	0.34	9.16
8/14/2004	6:30	17.44	8.34	0.34	9.17
8/14/2004	7:00	17.44	8.35	0.34	9.20
8/14/2004	7:30	17.44	8.35	0.34	9.21
8/14/2004	8:00	17.50	8.38	0.34	9.27
8/14/2004	8:30	17.61	8.38	0.34	9.34
8/14/2004	9:00	17.78	8.40	0.34	9.37
8/14/2004	9:30	17.94	8.42	0.34	9.44
8/14/2004	10:00	18.06	8.43	0.33	9.45
8/14/2004	10:30	18.22	8.44	0.33	9.48
8/14/2004	11:00	18.33	8.45	0.33	9.49
8/14/2004	11:30	18.44	8.45	0.33	9.48
8/14/2004	12:00	18.50	8.46	0.33	9.50
8/14/2004	12:30	18.67	8.47	0.33	9.48
8/14/2004	13:00	18.67	8.45	0.33	9.46
8/14/2004	13:30	18.72	8.46	0.34	9.45
8/14/2004	14:00	18.78	8.46	0.34	9.43
8/14/2004	14:30	18.78	8.45	0.34	9.39
8/14/2004	15:00	18.72	8.45	0.34	9.38
8/14/2004	15:30	18.56	8.43	0.34	9.27
8/14/2004	16:00	18.56	8.43	0.34	9.31
8/14/2004	16:30	18.56	8.42	0.34	9.27
8/14/2004	17:00	18.50	8.40	0.34	9.19
8/14/2004	17:30	18.39	8.40	0.34	9.18
8/14/2004	18:00	18.28	8.39	0.34	9.16
8/14/2004	18:30	18.11	8.37	0.34	9.12
8/14/2004	19:00	18.00	8.35	0.34	9.07
8/14/2004	19:30	17.83	8.33	0.34	9.02
8/14/2004	20:00	17.72	8.32	0.34	9.00
8/14/2004	20:30	17.61	8.31	0.34	8.99
8/14/2004	21:00	17.56	8.31	0.34	8.99
8/14/2004	21:30	17.50	8.32	0.34	9.00
8/14/2004	22:00	17.50	8.32	0.34	8.99
8/14/2004	22:30	17.50	8.33	0.34	9.01
8/14/2004	23:00	17.50	8.34	0.34	9.03
8/14/2004	23:30	17.50	8.36	0.34	9.07

2004 Water Quality Study
Tallwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/15/2004	0:00	17.56	8.37	0.34	9.10
8/15/2004	0:30	17.56	8.37	0.34	9.11
8/15/2004	1:00	17.61	8.39	0.34	9.12
8/15/2004	1:30	17.61	8.40	0.34	9.14
8/15/2004	2:00	17.61	8.40	0.34	9.15
8/15/2004	2:30	17.61	8.40	0.34	9.14
8/15/2004	3:00	17.61	8.39	0.34	9.14
8/15/2004	3:30	17.61	8.40	0.34	9.15
8/15/2004	4:00	17.61	8.41	0.34	9.14
8/15/2004	4:30	17.61	8.41	0.34	9.15
8/15/2004	5:00	17.61	8.41	0.34	9.14
8/15/2004	5:30	17.61	8.40	0.34	9.13
8/15/2004	6:00	17.61	8.40	0.34	9.14
8/15/2004	6:30	17.61	8.40	0.34	9.15
8/15/2004	7:00	17.61	8.41	0.34	9.16
8/15/2004	7:30	17.67	8.41	0.34	9.23
8/15/2004	8:00	17.72	8.43	0.34	9.23
8/15/2004	8:30	17.83	8.45	0.34	9.28
8/15/2004	9:00	18.06	8.47	0.34	9.33
8/15/2004	9:30	18.17	8.49	0.34	9.35
8/15/2004	10:00	18.33	8.50	0.34	9.40
8/15/2004	10:30	18.44	8.50	0.34	9.43
8/15/2004	11:00	18.56	8.51	0.34	9.47
8/15/2004	11:30	18.72	8.52	0.34	9.17
8/15/2004	12:00	18.83	8.53	0.34	9.18
8/15/2004	12:30	18.94	8.53	0.34	9.20
8/15/2004	13:00	18.94	8.53	0.34	9.19
8/15/2004	13:30	19.00	8.53	0.34	9.13
8/15/2004	14:00	19.17	8.54	0.34	9.17
8/15/2004	14:30	19.17	8.54	0.34	9.13
8/15/2004	15:00	19.17	8.54	0.34	9.07
8/15/2004	15:30	19.17	8.54	0.34	9.07
8/15/2004	16:00	19.22	8.54	0.34	9.07
8/15/2004	16:30	19.17	8.54	0.34	9.04
8/15/2004	17:00	19.17	8.54	0.34	8.99
8/15/2004	17:30	19.22	8.54	0.34	9.00
8/15/2004	18:00	19.17	8.54	0.34	8.99
8/15/2004	18:30	19.11	8.53	0.34	8.90
8/15/2004	19:00	19.06	8.53	0.34	8.88
8/15/2004	19:30	0.00	0.00	0.00	0.00
8/15/2004	20:00	0.00	0.00	0.00	0.00
8/15/2004	20:30	0.00	0.00	0.00	0.00
8/15/2004	21:00	0.00	0.00	0.00	0.00
8/15/2004	21:30	0.00	0.00	0.00	0.00
8/15/2004	22:00	0.00	0.00	0.00	0.00
8/15/2004	22:30	0.00	0.00	0.00	0.00
8/15/2004	23:00	0.00	0.00	0.00	0.00
8/15/2004	23:30	0.00	0.00	0.00	0.00

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/16/2004	0:00	0.00	0.00	0.00	0.00
8/16/2004	0:30	0.00	0.00	0.00	0.00
8/16/2004	1:00	0.00	0.00	0.00	0.00
8/16/2004	1:30	0.00	0.00	0.00	0.00
8/16/2004	2:00	0.00	0.00	0.00	0.00
8/16/2004	2:30	0.00	0.00	0.00	0.00
8/16/2004	3:00	0.00	0.00	0.00	0.00
8/16/2004	3:30	0.00	0.00	0.00	0.00
8/16/2004	4:00	0.00	0.00	0.00	0.00
8/16/2004	4:30	0.00	0.00	0.00	0.00
8/16/2004	5:00	0.00	0.00	0.00	0.00
8/16/2004	5:30	0.00	0.00	0.00	0.00
8/16/2004	6:00	0.00	0.00	0.00	0.00
8/16/2004	6:30	0.00	0.00	0.00	0.00
8/16/2004	7:00	0.00	0.00	0.00	0.00
8/16/2004	7:30	0.00	0.00	0.00	0.00
8/16/2004	8:00	0.00	0.00	0.00	0.00
8/16/2004	8:30	0.00	0.00	0.00	0.00
8/16/2004	9:00	0.00	0.00	0.00	0.00
8/16/2004	9:30	0.00	0.00	0.00	0.00
8/16/2004	10:00	0.00	0.00	0.00	0.00
8/16/2004	10:30	0.00	0.00	0.00	0.00
8/16/2004	11:00	0.00	0.00	0.00	0.00
8/16/2004	11:30	0.00	0.00	0.00	0.00
8/16/2004	12:00	0.00	0.00	0.00	0.00
8/16/2004	12:30	0.00	0.00	0.00	0.00
8/16/2004	13:00	0.00	0.00	0.00	0.00
8/16/2004	13:30	0.00	0.00	0.00	0.00
8/16/2004	14:00	0.00	0.00	0.00	0.00
8/16/2004	14:30	0.00	0.00	0.00	0.00
8/16/2004	15:00	0.00	0.00	0.00	0.00
8/16/2004	15:30	0.00	0.00	0.00	0.00
8/16/2004	16:00	0.00	0.00	0.00	0.00
8/16/2004	16:30	0.00	0.00	0.00	0.00
8/16/2004	17:00	0.00	0.00	0.00	0.00
8/16/2004	17:30	0.00	0.00	0.00	0.00
8/16/2004	18:00	0.00	0.00	0.00	0.00
8/16/2004	18:30	18.94	8.46	0.34	9.07
8/16/2004	19:00	18.89	8.45	0.34	8.98
8/16/2004	19:30	18.89	8.44	0.34	8.93
8/16/2004	20:00	18.83	8.43	0.34	8.92
8/16/2004	20:30	18.83	8.43	0.34	8.91
8/16/2004	21:00	18.89	8.44	0.34	8.91
8/16/2004	21:30	18.89	8.44	0.34	8.89
8/16/2004	22:00	18.89	8.45	0.34	8.90
8/16/2004	22:30	18.89	8.44	0.34	8.86
8/16/2004	23:00	18.89	8.44	0.34	8.86
8/16/2004	23:30	18.89	8.43	0.34	8.82

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/17/2004	0:00	18.83	8.42	0.34	8.81
8/17/2004	0:30	18.83	8.41	0.34	8.71
8/17/2004	1:00	18.83	8.41	0.34	8.70
8/17/2004	1:30	18.83	8.41	0.34	8.65
8/17/2004	2:00	18.83	8.40	0.34	8.64
8/17/2004	2:30	18.83	8.40	0.34	8.66
8/17/2004	3:00	18.83	8.40	0.34	8.61
8/17/2004	3:30	18.83	8.40	0.34	8.64
8/17/2004	4:00	18.83	8.39	0.34	8.62
8/17/2004	4:30	18.83	8.39	0.34	8.59
8/17/2004	5:00	18.83	8.39	0.34	8.58
8/17/2004	5:30	18.83	8.39	0.34	8.56
8/17/2004	6:00	18.78	8.39	0.34	8.57
8/17/2004	6:30	18.78	8.39	0.34	8.59
8/17/2004	7:00	18.78	8.39	0.34	8.71
8/17/2004	7:30	18.83	8.41	0.34	8.76
8/17/2004	8:00	18.83	8.41	0.34	8.78
8/17/2004	8:30	18.89	8.43	0.34	8.87
8/17/2004	9:00	19.00	8.45	0.34	8.93
8/17/2004	9:30	19.06	8.46	0.34	8.92
8/17/2004	10:00	19.22	8.48	0.34	9.03
8/17/2004	10:30	19.28	8.50	0.34	9.04
8/17/2004	11:00	19.33	8.51	0.34	9.06
8/17/2004	11:30	19.44	8.52	0.34	9.09
8/17/2004	12:00	19.56	8.53	0.34	9.09
8/17/2004	12:30	19.61	8.53	0.34	9.02
8/17/2004	13:00	19.67	8.53	0.34	9.03
8/17/2004	13:30	19.72	8.53	0.34	9.06
8/17/2004	14:00	19.83	8.54	0.34	9.05
8/17/2004	14:30	19.83	8.53	0.34	8.99
8/17/2004	15:00	19.94	8.53	0.34	8.99
8/17/2004	15:30	20.00	8.52	0.34	8.95
8/17/2004	16:00	20.00	8.52	0.34	8.92
8/17/2004	16:30	20.00	8.51	0.34	8.83
8/17/2004	17:00	20.06	8.52	0.34	8.88
8/17/2004	17:30	20.06	8.52	0.34	8.84
8/17/2004	18:00	20.06	8.52	0.34	8.83
8/17/2004	18:30	20.06	8.52	0.34	8.81
8/17/2004	19:00	20.00	8.52	0.34	8.78
8/17/2004	19:30	20.00	8.50	0.34	8.73
8/17/2004	20:00	19.89	8.49	0.34	8.68
8/17/2004	20:30	19.83	8.47	0.34	8.63
8/17/2004	21:00	19.78	8.46	0.34	8.61
8/17/2004	21:30	19.72	8.44	0.34	8.57
8/17/2004	22:00	19.61	8.42	0.34	8.54
8/17/2004	22:30	19.56	8.41	0.34	8.51
8/17/2004	23:00	19.50	8.40	0.34	8.48
8/17/2004	23:30	19.44	8.39	0.34	8.46

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/18/2004	0:00	19.39	8.38	0.34	8.42
8/18/2004	0:30	19.33	8.37	0.34	8.40
8/18/2004	1:00	19.33	8.37	0.34	8.40
8/18/2004	1:30	19.28	8.36	0.34	8.38
8/18/2004	2:00	19.28	8.36	0.34	8.38
8/18/2004	2:30	19.28	8.36	0.34	8.37
8/18/2004	3:00	19.22	8.36	0.34	8.35
8/18/2004	3:30	19.22	8.36	0.34	8.36
8/18/2004	4:00	19.22	8.36	0.34	8.36
8/18/2004	4:30	19.22	8.36	0.34	8.36
8/18/2004	5:00	19.17	8.36	0.34	8.37
8/18/2004	5:30	19.11	8.35	0.34	8.37
8/18/2004	6:00	19.11	8.35	0.34	8.36
8/18/2004	6:30	19.06	8.35	0.34	8.37
8/18/2004	7:00	19.06	8.35	0.34	8.41
8/18/2004	7:30	19.06	8.36	0.34	8.43
8/18/2004	8:00	19.06	8.36	0.34	8.47
8/18/2004	8:30	19.17	8.38	0.34	8.52
8/18/2004	9:00	19.28	8.40	0.34	8.55
8/18/2004	9:30	19.39	8.41	0.34	8.36
8/18/2004	10:00	19.50	8.43	0.34	8.43
8/18/2004	10:30	19.67	8.44	0.34	8.33
8/18/2004	11:00	19.78	8.45	0.34	8.35
8/18/2004	11:30	19.83	8.45	0.34	8.33
8/18/2004	12:00	19.89	8.45	0.34	8.30
8/18/2004	12:30	19.94	8.46	0.34	8.34
8/18/2004	13:00	20.06	8.47	0.34	8.36
8/18/2004	13:30	20.11	8.47	0.34	8.35
8/18/2004	14:00	20.17	8.48	0.34	8.31
8/18/2004	14:30	20.22	8.50	0.34	8.20
8/18/2004	15:00	20.28	8.51	0.34	8.18
8/18/2004	15:30	20.17	8.49	0.34	8.15
8/18/2004	16:00	20.11	8.48	0.34	8.31
8/18/2004	16:30	20.17	8.50	0.34	8.01
8/18/2004	17:00	20.22	8.50	0.34	8.18
8/18/2004	17:30	20.28	8.51	0.34	7.98
8/18/2004	18:00	20.22	8.52	0.34	7.99
8/18/2004	18:30	20.22	8.51	0.34	8.16
8/18/2004	19:00	20.28	8.51	0.34	8.15
8/18/2004	19:30	20.28	8.51	0.34	8.13
8/18/2004	20:00	20.22	8.51	0.34	8.24
8/18/2004	20:30	20.11	8.51	0.34	8.07
8/18/2004	21:00	20.06	8.50	0.34	8.22
8/18/2004	21:30	20.00	8.50	0.34	8.18
8/18/2004	22:00	19.89	8.50	0.34	8.23
8/18/2004	22:30	19.83	8.49	0.34	8.24
8/18/2004	23:00	19.78	8.48	0.34	8.19
8/18/2004	23:30	19.72	8.48	0.34	8.26

2004 Water Quality Study Tailwater Tabular Data for Month of August 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/19/2004	0:00	19.61	8.47	0.34	8.17
8/19/2004	0:30	19.56	8.46	0.34	8.17
8/19/2004	1:00	19.44	8.45	0.34	8.22
8/19/2004	1:30	19.39	8.45	0.34	8.18
8/19/2004	2:00	19.33	8.45	0.34	8.14
8/19/2004	2:30	19.28	8.44	0.34	8.19
8/19/2004	3:00	19.22	8.44	0.34	8.19
8/19/2004	3:30	19.17	8.43	0.34	8.15
8/19/2004	4:00	19.11	8.42	0.34	8.25
8/19/2004	4:30	19.06	8.42	0.34	8.14
8/19/2004	5:00	19.00	8.41	0.34	8.11
8/19/2004	5:30	19.00	8.41	0.34	8.22
8/19/2004	6:00	18.94	8.40	0.34	8.17
8/19/2004	6:30	18.89	8.40	0.34	8.18
8/19/2004	7:00	18.89	8.39	0.34	8.21
8/19/2004	7:30	18.89	8.40	0.34	8.17
8/19/2004	8:00	18.89	8.40	0.34	8.26
8/19/2004	8:30	19.00	8.42	0.34	8.18
8/19/2004	9:00	19.11	8.44	0.34	8.29
8/19/2004	9:30	19.22	8.45	0.34	8.32
8/19/2004	10:00	19.33	8.46	0.34	8.44
8/19/2004	10:30	19.44	8.46	0.34	8.36
8/19/2004	11:00	19.50	8.47	0.34	8.40
8/19/2004	11:30	19.61	8.48	0.34	8.32
8/19/2004	12:00	19.72	8.49	0.34	8.31
8/19/2004	12:30	19.83	8.50	0.34	8.38
8/19/2004	13:00	19.89	8.51	0.34	8.34
8/19/2004	13:30	19.89	8.51	0.34	8.36
8/19/2004	14:00	19.94	8.52	0.34	8.35
8/19/2004	14:30	20.00	8.52	0.34	8.34
8/19/2004	15:00	20.00	8.51	0.34	8.35
8/19/2004	15:30	20.00	8.52	0.34	8.40
8/19/2004	16:00	19.94	8.50	0.34	8.35
8/19/2004	16:30	19.89	8.50	0.34	8.33
8/19/2004	17:00	19.83	8.49	0.34	8.30
8/19/2004	17:30	19.78	8.48	0.34	8.28
8/19/2004	18:00	19.72	8.47	0.34	8.26
8/19/2004	18:30	19.67	8.46	0.34	8.20
8/19/2004	19:00	19.61	8.45	0.34	8.17
8/19/2004	19:30	19.50	8.44	0.34	8.17
8/19/2004	20:00	19.44	8.43	0.34	8.11
8/19/2004	20:30	19.39	8.42	0.34	8.10
8/19/2004	21:00	19.33	8.41	0.34	8.07
8/19/2004	21:30	19.28	8.40	0.34	8.08
8/19/2004	22:00	19.22	8.39	0.34	8.09
8/19/2004	22:30	19.17	8.39	0.34	8.06
8/19/2004	23:00	19.11	8.38	0.34	8.01
8/19/2004	23:30	19.11	8.37	0.34	8.02

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/20/2004	0:00	19.06	8.36	0.34	8.05
8/20/2004	0:30	19.00	8.36	0.34	8.04
8/20/2004	1:00	19.00	8.36	0.34	8.06
8/20/2004	1:30	18.94	8.36	0.34	8.06
8/20/2004	2:00	18.94	8.35	0.34	8.04
8/20/2004	2:30	18.89	8.36	0.34	8.03
8/20/2004	3:00	18.89	8.35	0.34	8.03
8/20/2004	3:30	18.83	8.37	0.34	8.11
8/20/2004	4:00	18.83	8.36	0.34	8.08
8/20/2004	4:30	18.78	8.37	0.34	8.10
8/20/2004	5:00	18.78	8.37	0.34	8.09
8/20/2004	5:30	18.72	8.37	0.34	8.13
8/20/2004	6:00	18.72	8.37	0.34	8.18
8/20/2004	6:30	18.67	8.37	0.34	8.19
8/20/2004	7:00	18.67	8.38	0.34	8.17
8/20/2004	7:30	18.67	8.38	0.34	8.30
8/20/2004	8:00	18.67	8.40	0.34	8.32
8/20/2004	8:30	18.72	8.41	0.34	8.40
8/20/2004	9:00	18.83	8.43	0.34	8.38
8/20/2004	9:30	18.89	8.44	0.34	8.47
8/20/2004	10:00	18.94	8.45	0.34	8.53
8/20/2004	10:30	19.06	8.47	0.34	8.53
8/20/2004	11:00	19.22	8.48	0.34	8.56
8/20/2004	11:30	19.33	8.49	0.34	8.59
8/20/2004	12:00	19.44	8.49	0.34	8.56
8/20/2004	12:30	19.56	8.49	0.34	8.58
8/20/2004	13:00	19.61	8.49	0.34	8.60
8/20/2004	13:30	19.67	8.49	0.34	8.54
8/20/2004	14:00	19.72	8.49	0.34	8.59
8/20/2004	14:30	19.78	8.49	0.34	8.54
8/20/2004	15:00	19.83	8.49	0.34	8.52
8/20/2004	15:30	19.78	8.49	0.34	8.52
8/20/2004	16:00	19.78	8.48	0.34	8.49
8/20/2004	16:30	19.67	8.47	0.34	8.43
8/20/2004	17:00	19.61	8.46	0.34	8.37
8/20/2004	17:30	19.56	8.45	0.34	8.36
8/20/2004	18:00	19.50	8.44	0.34	8.33
8/20/2004	18:30	19.44	8.43	0.34	8.33
8/20/2004	19:00	19.33	8.42	0.34	8.31
8/20/2004	19:30	19.28	8.41	0.34	8.30
8/20/2004	20:00	19.17	8.41	0.34	8.27
8/20/2004	20:30	19.11	8.39	0.34	8.25
8/20/2004	21:00	19.06	8.39	0.34	8.19
8/20/2004	21:30	19.00	8.38	0.34	8.21
8/20/2004	22:00	18.94	8.37	0.34	8.20
8/20/2004	22:30	18.89	8.37	0.34	8.18
8/20/2004	23:00	18.83	8.37	0.34	8.21
8/20/2004	23:30	18.72	8.37	0.34	8.20

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/21/2004	0:00	18.67	8.37	0.34	8.22
8/21/2004	0:30	18.67	8.36	0.34	8.20
8/21/2004	1:00	18.56	8.36	0.34	8.17
8/21/2004	1:30	18.50	8.36	0.34	8.13
8/21/2004	2:00	18.50	8.35	0.34	8.21
8/21/2004	2:30	18.39	8.36	0.34	8.20
8/21/2004	3:00	18.39	8.36	0.34	8.26
8/21/2004	3:30	18.33	8.36	0.34	8.25
8/21/2004	4:00	18.28	8.35	0.34	8.26
8/21/2004	4:30	18.22	8.36	0.34	8.25
8/21/2004	5:00	18.22	8.35	0.34	8.28
8/21/2004	5:30	18.17	8.36	0.34	8.24
8/21/2004	6:00	18.17	8.36	0.34	8.29
8/21/2004	6:30	18.11	8.37	0.34	8.28
8/21/2004	7:00	18.11	8.37	0.34	8.36
8/21/2004	7:30	18.11	8.38	0.34	8.39
8/21/2004	8:00	18.17	8.40	0.34	8.42
8/21/2004	8:30	18.22	8.41	0.34	8.48
8/21/2004	9:00	18.39	8.43	0.34	8.56
8/21/2004	9:30	18.56	8.44	0.34	8.59
8/21/2004	10:00	18.67	8.46	0.34	8.58
8/21/2004	10:30	18.78	8.47	0.34	8.62
8/21/2004	11:00	18.89	8.47	0.34	8.64
8/21/2004	11:30	19.00	8.48	0.34	8.62
8/21/2004	12:00	19.11	8.48	0.34	8.60
8/21/2004	12:30	19.22	8.49	0.34	8.61
8/21/2004	13:00	19.33	8.49	0.34	8.51
8/21/2004	13:30	19.33	8.49	0.34	8.54
8/21/2004	14:00	19.44	8.50	0.34	8.58
8/21/2004	14:30	19.44	8.50	0.34	8.50
8/21/2004	15:00	19.44	8.49	0.34	8.54
8/21/2004	15:30	19.39	8.49	0.34	8.45
8/21/2004	16:00	19.28	8.49	0.34	8.48
8/21/2004	16:30	19.22	8.48	0.34	8.43
8/21/2004	17:00	19.17	8.47	0.34	8.46
8/21/2004	17:30	19.11	8.47	0.34	8.44
8/21/2004	18:00	19.06	8.47	0.34	8.47
8/21/2004	18:30	19.00	8.46	0.34	8.44
8/21/2004	19:00	18.94	8.46	0.34	8.46
8/21/2004	19:30	18.89	8.46	0.34	8.38
8/21/2004	20:00	18.83	8.45	0.34	8.42
8/21/2004	20:30	18.78	8.44	0.34	8.43
8/21/2004	21:00	18.72	8.44	0.34	8.41
8/21/2004	21:30	18.72	8.44	0.34	8.38
8/21/2004	22:00	18.67	8.43	0.34	8.37
8/21/2004	22:30	18.61	8.43	0.34	8.35
8/21/2004	23:00	18.56	8.42	0.34	8.38
8/21/2004	23:30	18.44	8.42	0.34	8.40

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/22/2004	0:00	18.39	8.42	0.34	8.39
8/22/2004	0:30	18.33	8.41	0.34	8.37
8/22/2004	1:00	18.28	8.40	0.34	8.39
8/22/2004	1:30	18.22	8.40	0.34	8.36
8/22/2004	2:00	18.17	8.39	0.34	8.39
8/22/2004	2:30	18.17	8.39	0.34	8.36
8/22/2004	3:00	18.11	8.39	0.34	8.37
8/22/2004	3:30	18.11	8.39	0.34	8.37
8/22/2004	4:00	18.11	8.39	0.34	8.35
8/22/2004	4:30	18.11	8.39	0.34	8.33
8/22/2004	5:00	18.11	8.38	0.34	8.29
8/22/2004	5:30	18.06	8.38	0.34	8.34
8/22/2004	6:00	18.06	8.38	0.34	8.36
8/22/2004	6:30	18.06	8.38	0.34	8.39
8/22/2004	7:00	18.06	8.39	0.34	8.38
8/22/2004	7:30	18.06	8.39	0.34	8.37
8/22/2004	8:00	18.06	8.40	0.34	8.43
8/22/2004	8:30	18.06	8.40	0.34	8.41
8/22/2004	9:00	18.06	8.40	0.34	8.41
8/22/2004	9:30	18.06	8.39	0.34	8.44
8/22/2004	10:00	18.17	8.42	0.34	8.54
8/22/2004	10:30	18.22	8.43	0.34	8.65
8/22/2004	11:00	18.44	8.45	0.34	8.66
8/22/2004	11:30	18.50	8.45	0.34	8.60
8/22/2004	12:00	18.61	8.46	0.34	8.61
8/22/2004	12:30	18.83	8.49	0.34	8.82
8/22/2004	13:00	18.94	8.50	0.34	8.72
8/22/2004	13:30	19.11	8.51	0.34	8.72
8/22/2004	14:00	19.17	8.52	0.34	8.67
8/22/2004	14:30	19.28	8.52	0.34	8.67
8/22/2004	15:00	19.33	8.53	0.34	8.64
8/22/2004	15:30	19.44	8.54	0.34	8.65
8/22/2004	16:00	19.39	8.54	0.34	8.60
8/22/2004	16:30	19.39	8.53	0.34	8.63
8/22/2004	17:00	19.39	8.52	0.34	8.54
8/22/2004	17:30	19.39	8.53	0.34	8.57
8/22/2004	18:00	19.33	8.51	0.34	8.51
8/22/2004	18:30	19.33	8.51	0.34	8.38
8/22/2004	19:00	19.28	8.50	0.34	8.41
8/22/2004	19:30	19.17	8.48	0.34	8.28
8/22/2004	20:00	19.11	8.47	0.34	8.37
8/22/2004	20:30	19.11	8.47	0.34	8.34
8/22/2004	21:00	19.06	8.47	0.34	8.34
8/22/2004	21:30	19.06	8.46	0.34	8.36
8/22/2004	22:00	19.00	8.46	0.34	8.42
8/22/2004	22:30	18.94	8.46	0.34	8.40
8/22/2004	23:00	18.94	8.45	0.34	8.30
8/22/2004	23:30	18.89	8.45	0.34	8.33

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/23/2004	0:00	18.83	8.45	0.34	8.37
8/23/2004	0:30	18.83	8.45	0.34	8.38
8/23/2004	1:00	18.83	8.45	0.34	8.40
8/23/2004	1:30	18.83	8.45	0.34	8.39
8/23/2004	2:00	18.83	8.45	0.34	8.36
8/23/2004	2:30	18.78	8.44	0.34	8.38
8/23/2004	3:00	18.78	8.44	0.34	8.42
8/23/2004	3:30	18.72	8.44	0.34	8.45
8/23/2004	4:00	18.72	8.44	0.34	8.39
8/23/2004	4:30	18.67	8.44	0.34	8.36
8/23/2004	5:00	18.67	8.43	0.34	8.39
8/23/2004	5:30	18.61	8.43	0.34	8.46
8/23/2004	6:00	18.56	8.43	0.34	8.48
8/23/2004	6:30	18.50	8.42	0.34	8.46
8/23/2004	7:00	18.44	8.43	0.34	8.53
8/23/2004	7:30	18.44	8.43	0.34	8.47
8/23/2004	8:00	18.39	8.44	0.34	8.57
8/23/2004	8:30	18.39	8.45	0.34	8.64
8/23/2004	9:00	18.44	8.47	0.34	8.69
8/23/2004	9:30	18.44	8.48	0.34	8.71
8/23/2004	10:00	18.44	8.48	0.34	8.71
8/23/2004	10:30	18.50	8.48	0.34	8.70
8/23/2004	11:00	18.61	8.49	0.34	8.73
8/23/2004	11:30	18.67	8.49	0.34	8.65
8/23/2004	12:00	18.83	8.50	0.34	8.73
8/23/2004	12:30	18.89	8.50	0.34	8.72
8/23/2004	13:00	18.89	8.50	0.34	8.75
8/23/2004	13:30	18.94	8.49	0.34	8.69
8/23/2004	14:00	18.94	8.49	0.34	8.67
8/23/2004	14:30	18.94	8.49	0.34	8.66
8/23/2004	15:00	18.94	8.50	0.34	8.74
8/23/2004	15:30	18.94	8.52	0.34	8.78
8/23/2004	16:00	18.78	8.51	0.34	8.81
8/23/2004	16:30	18.67	8.49	0.34	8.72
8/23/2004	17:00	18.56	8.49	0.34	8.76
8/23/2004	17:30	18.50	8.49	0.34	8.76
8/23/2004	18:00	18.44	8.47	0.34	8.73
8/23/2004	18:30	18.33	8.47	0.34	8.68
8/23/2004	19:00	18.33	8.47	0.34	8.75
8/23/2004	19:30	18.33	8.46	0.34	8.71
8/23/2004	20:00	18.28	8.45	0.34	8.64
8/23/2004	20:30	18.28	8.44	0.34	8.61
8/23/2004	21:00	18.22	8.44	0.34	8.58
8/23/2004	21:30	18.28	8.44	0.34	8.52
8/23/2004	22:00	18.28	8.44	0.34	8.57
8/23/2004	22:30	18.33	8.44	0.34	8.60
8/23/2004	23:00	18.33	8.44	0.34	8.59
8/23/2004	23:30	18.33	8.44	0.34	8.56

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/24/2004	0:00	18.33	8.44	0.34	8.55
8/24/2004	0:30	18.39	8.44	0.34	8.55
8/24/2004	1:00	18.39	8.44	0.34	8.53
8/24/2004	1:30	18.39	8.44	0.34	8.54
8/24/2004	2:00	18.39	8.44	0.34	8.54
8/24/2004	2:30	18.39	8.44	0.34	8.51
8/24/2004	3:00	18.44	8.44	0.34	8.49
8/24/2004	3:30	18.44	8.44	0.34	8.55
8/24/2004	4:00	18.44	8.44	0.34	8.54
8/24/2004	4:30	18.44	8.44	0.34	8.47
8/24/2004	5:00	18.44	8.44	0.34	8.52
8/24/2004	5:30	18.44	8.44	0.34	8.52
8/24/2004	6:00	18.44	8.44	0.34	8.53
8/24/2004	6:30	18.44	8.44	0.34	8.59
8/24/2004	7:00	18.44	8.44	0.34	8.56
8/24/2004	7:30	18.44	8.45	0.34	8.59
8/24/2004	8:00	18.44	8.46	0.34	8.67
8/24/2004	8:30	18.44	8.46	0.34	8.69
8/24/2004	9:00	18.50	8.46	0.34	8.69
8/24/2004	9:30	18.56	8.48	0.34	8.73
8/24/2004	10:00	18.61	8.49	0.34	8.82
8/24/2004	10:30	18.72	8.50	0.34	8.83
8/24/2004	11:00	18.89	8.52	0.34	8.84
8/24/2004	11:30	19.06	8.53	0.34	8.81
8/24/2004	12:00	19.06	8.53	0.34	8.77
8/24/2004	12:30	19.17	8.53	0.34	8.80
8/24/2004	13:00	19.06	8.50	0.34	8.60
8/24/2004	13:30	19.06	8.51	0.34	8.73
8/24/2004	14:00	19.00	8.50	0.34	8.65
8/24/2004	14:30	19.00	8.51	0.34	8.71
8/24/2004	15:00	18.94	8.50	0.34	8.60
8/24/2004	15:30	18.89	8.48	0.34	8.50
8/24/2004	16:00	18.94	8.50	0.34	8.68
8/24/2004	16:30	19.00	8.51	0.34	8.62
8/24/2004	17:00	18.94	8.49	0.34	8.57
8/24/2004	17:30	18.94	8.47	0.34	8.50
8/24/2004	18:00	18.94	8.46	0.34	8.49
8/24/2004	18:30	18.89	8.45	0.34	8.52
8/24/2004	19:00	18.89	8.44	0.34	8.49
8/24/2004	19:30	18.83	8.42	0.34	8.46
8/24/2004	20:00	18.83	8.41	0.34	8.34
8/24/2004	20:30	18.83	8.40	0.34	8.34
8/24/2004	21:00	18.83	8.39	0.34	8.36
8/24/2004	21:30	18.83	8.40	0.34	8.35
8/24/2004	22:00	18.83	8.40	0.34	8.39
8/24/2004	22:30	18.89	8.40	0.34	8.41
8/24/2004	23:00	18.89	8.41	0.34	8.35
8/24/2004	23:30	18.94	8.40	0.34	8.34

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/25/2004	0:00	18.94	8.40	0.34	8.36
8/25/2004	0:30	19.00	8.40	0.34	8.41
8/25/2004	1:00	19.00	8.40	0.34	8.40
8/25/2004	1:30	19.00	8.40	0.34	8.49
8/25/2004	2:00	19.00	8.41	0.34	8.47
8/25/2004	2:30	19.00	8.41	0.34	8.45
8/25/2004	3:00	19.00	8.41	0.34	8.50
8/25/2004	3:30	19.06	8.41	0.34	8.38
8/25/2004	4:00	19.06	8.41	0.34	8.46
8/25/2004	4:30	19.06	8.41	0.34	8.42
8/25/2004	5:00	19.06	8.41	0.34	8.37
8/25/2004	5:30	19.06	8.41	0.34	8.41
8/25/2004	6:00	19.06	8.41	0.34	8.34
8/25/2004	6:30	19.11	8.42	0.34	8.34
8/25/2004	7:00	19.17	8.43	0.34	8.48
8/25/2004	7:30	19.17	8.45	0.34	8.63
8/25/2004	8:00	19.17	8.47	0.34	8.57
8/25/2004	8:30	19.22	8.48	0.34	8.32
8/25/2004	9:00	19.28	8.50	0.34	8.10
8/25/2004	9:30	19.33	8.51	0.34	8.17
8/25/2004	10:00	19.44	8.53	0.34	8.17
8/25/2004	10:30	19.56	8.54	0.34	8.22
8/25/2004	11:00	19.61	8.55	0.34	8.20
8/25/2004	11:30	19.67	8.55	0.34	8.14
8/25/2004	12:00	19.72	8.56	0.34	8.16
8/25/2004	12:30	19.89	8.58	0.34	8.20
8/25/2004	13:00	19.89	8.58	0.34	8.15
8/25/2004	13:30	19.94	8.57	0.34	8.18
8/25/2004	14:00	19.94	8.58	0.34	8.15
8/25/2004	14:30	19.83	8.55	0.34	8.02
8/25/2004	15:00	19.83	8.55	0.34	8.10
8/25/2004	15:30	19.83	8.55	0.34	8.22
8/25/2004	16:00	19.78	8.54	0.34	8.01
8/25/2004	16:30	19.72	8.51	0.34	7.98
8/25/2004	17:00	19.67	8.50	0.34	7.84
8/25/2004	17:30	19.61	8.49	0.34	7.92
8/25/2004	18:00	19.56	8.50	0.34	7.82
8/25/2004	18:30	19.44	8.48	0.33	7.96
8/25/2004	19:00	19.44	8.46	0.33	8.00
8/25/2004	19:30	19.39	8.45	0.33	7.90
8/25/2004	20:00	19.33	8.43	0.33	7.90
8/25/2004	20:30	19.33	8.42	0.34	7.80
8/25/2004	21:00	19.28	8.42	0.34	7.81
8/25/2004	21:30	19.28	8.42	0.34	7.93
8/25/2004	22:00	19.28	8.42	0.34	8.04
8/25/2004	22:30	19.28	8.42	0.34	8.20
8/25/2004	23:00	19.28	8.41	0.34	8.40
8/25/2004	23:30	19.28	8.42	0.34	8.42

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Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/26/2004	0:00	19.28	8.41	0.34	8.44
8/26/2004	0:30	19.28	8.42	0.34	8.24
8/26/2004	1:00	19.33	8.42	0.34	8.33
8/26/2004	1:30	19.33	8.42	0.34	8.35
8/26/2004	2:00	19.33	8.43	0.34	8.33
8/26/2004	2:30	19.33	8.42	0.34	8.35
8/26/2004	3:00	19.28	8.42	0.34	8.34
8/26/2004	3:30	19.28	8.41	0.34	8.45
8/26/2004	4:00	19.33	8.41	0.34	8.42
8/26/2004	4:30	19.33	8.40	0.34	8.37
8/26/2004	5:00	19.33	8.41	0.34	8.36
8/26/2004	5:30	19.39	8.40	0.34	8.31
8/26/2004	6:00	19.39	8.40	0.34	8.31
8/26/2004	6:30	19.44	8.41	0.34	8.25
8/26/2004	7:00	19.44	8.40	0.34	8.56
8/26/2004	7:30	19.44	8.41	0.34	8.40
8/26/2004	8:00	19.44	8.42	0.34	8.45
8/26/2004	8:30	19.50	8.42	0.34	8.54
8/26/2004	9:00	19.56	8.44	0.34	8.70
8/26/2004	9:30	19.61	8.45	0.34	8.73
8/26/2004	10:00	19.67	8.44	0.34	8.67
8/26/2004	10:30	19.67	8.44	0.34	8.66
8/26/2004	11:00	19.67	8.45	0.34	8.75
8/26/2004	11:30	19.67	8.46	0.34	8.75
8/26/2004	12:00	19.72	8.46	0.34	8.74
8/26/2004	12:30	19.94	8.47	0.34	8.78
8/26/2004	13:00	20.06	8.48	0.34	8.77
8/26/2004	13:30	20.17	8.48	0.34	8.75
8/26/2004	14:00	20.22	8.48	0.34	8.72
8/26/2004	14:30	20.33	8.48	0.34	8.71
8/26/2004	15:00	20.33	8.47	0.34	8.67
8/26/2004	15:30	20.33	8.47	0.34	8.69
8/26/2004	16:00	20.33	8.46	0.34	8.68
8/26/2004	16:30	20.22	8.44	0.34	8.64
8/26/2004	17:00	20.22	8.44	0.34	8.64
8/26/2004	17:30	20.17	8.42	0.34	8.61
8/26/2004	18:00	20.17	8.42	0.34	8.60
8/26/2004	18:30	20.22	8.43	0.34	8.59
8/26/2004	19:00	20.28	8.43	0.34	8.56
8/26/2004	19:30	20.33	8.43	0.34	8.50
8/26/2004	20:00	20.33	8.43	0.34	8.45
8/26/2004	20:30	20.33	8.43	0.34	8.43
8/26/2004	21:00	20.33	8.43	0.34	8.43
8/26/2004	21:30	20.33	8.38	0.34	8.17
8/26/2004	22:00	20.28	8.34	0.34	7.97
8/26/2004	22:30	20.28	8.32	0.35	8.26
8/26/2004	23:00	20.22	8.31	0.35	8.20
8/26/2004	23:30	20.22	8.31	0.35	8.24

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/27/2004	0:00	20.22	8.31	0.35	8.22
8/27/2004	0:30	20.28	8.31	0.35	8.25
8/27/2004	1:00	20.28	8.31	0.35	8.29
8/27/2004	1:30	20.33	8.33	0.34	8.36
8/27/2004	2:00	20.33	8.33	0.35	8.25
8/27/2004	2:30	20.33	8.33	0.34	8.24
8/27/2004	3:00	20.33	8.33	0.34	8.22
8/27/2004	3:30	20.22	8.30	0.35	8.17
8/27/2004	4:00	20.22	8.29	0.35	8.17
8/27/2004	4:30	20.22	8.29	0.35	8.15
8/27/2004	5:00	20.28	8.30	0.35	8.18
8/27/2004	5:30	20.33	8.31	0.35	8.14
8/27/2004	6:00	20.39	8.32	0.34	8.16
8/27/2004	6:30	20.39	8.32	0.34	8.16
8/27/2004	7:00	20.39	8.32	0.34	8.12
8/27/2004	7:30	20.39	8.31	0.35	8.13
8/27/2004	8:00	20.39	8.31	0.35	8.13
8/27/2004	8:30	20.44	8.32	0.35	8.18
8/27/2004	9:00	20.50	8.33	0.35	8.18
8/27/2004	9:30	20.61	8.35	0.35	8.16
8/27/2004	10:00	20.72	8.36	0.34	8.16
8/27/2004	10:30	20.89	8.38	0.34	8.18
8/27/2004	11:00	21.00	8.40	0.34	8.24
8/27/2004	11:30	21.22	8.41	0.35	8.20
8/27/2004	12:00	21.39	8.43	0.34	8.34
8/27/2004	12:30	21.56	8.46	0.34	8.36
8/27/2004	13:00	21.67	8.46	0.34	8.32
8/27/2004	13:30	21.67	8.45	0.35	8.24
8/27/2004	14:00	21.72	8.45	0.35	8.24
8/27/2004	14:30	21.78	8.45	0.34	8.29
8/27/2004	15:00	21.89	8.45	0.35	8.26
8/27/2004	15:30	22.00	8.45	0.35	8.26
8/27/2004	16:00	22.06	8.46	0.35	8.31
8/27/2004	16:30	22.11	8.46	0.35	8.24
8/27/2004	17:00	22.11	8.46	0.35	8.22
8/27/2004	17:30	22.11	8.46	0.35	8.26
8/27/2004	18:00	22.11	8.45	0.35	8.23
8/27/2004	18:30	22.11	8.43	0.35	8.21
8/27/2004	19:00	22.00	8.42	0.35	8.20
8/27/2004	19:30	21.94	8.39	0.35	8.19
8/27/2004	20:00	21.83	8.39	0.35	8.17
8/27/2004	20:30	21.78	8.37	0.35	8.14
8/27/2004	21:00	21.72	8.35	0.35	8.15
8/27/2004	21:30	21.61	8.34	0.35	8.12
8/27/2004	22:00	21.56	8.34	0.35	8.08
8/27/2004	22:30	21.50	8.32	0.35	8.18
8/27/2004	23:00	21.50	8.32	0.35	8.13
8/27/2004	23:30	21.44	8.32	0.35	8.17

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/28/2004	0:00	21.44	8.32	0.35	8.17
8/28/2004	0:30	21.44	8.31	0.35	8.22
8/28/2004	1:00	21.39	8.30	0.35	8.18
8/28/2004	1:30	21.33	8.29	0.35	8.17
8/28/2004	2:00	21.28	8.28	0.35	8.15
8/28/2004	2:30	21.22	8.28	0.35	8.20
8/28/2004	3:00	21.22	8.28	0.35	8.21
8/28/2004	3:30	21.28	8.28	0.35	8.01
8/28/2004	4:00	21.22	8.27	0.35	8.20
8/28/2004	4:30	21.22	8.28	0.35	8.21
8/28/2004	5:00	21.17	8.27	0.35	8.22
8/28/2004	5:30	21.17	8.27	0.35	8.18
8/28/2004	6:00	21.11	8.26	0.35	8.17
8/28/2004	6:30	21.06	8.24	0.35	8.17
8/28/2004	7:00	21.06	8.25	0.35	8.18
8/28/2004	7:30	21.06	8.25	0.35	8.18
8/28/2004	8:00	21.11	8.26	0.35	8.26
8/28/2004	8:30	21.11	8.28	0.35	8.29
8/28/2004	9:00	21.11	8.29	0.35	8.33
8/28/2004	9:30	21.17	8.31	0.35	8.34
8/28/2004	10:00	21.28	8.33	0.35	8.39
8/28/2004	10:30	21.33	8.35	0.35	8.37
8/28/2004	11:00	21.39	8.36	0.35	8.35
8/28/2004	11:30	21.39	8.37	0.35	8.32
8/28/2004	12:00	21.33	8.37	0.35	8.31
8/28/2004	12:30	21.28	8.38	0.35	8.45
8/28/2004	13:00	21.28	8.36	0.35	8.32
8/28/2004	13:30	21.28	8.34	0.35	8.24
8/28/2004	14:00	21.22	8.35	0.35	8.26
8/28/2004	14:30	21.17	8.35	0.35	8.22
8/28/2004	15:00	21.17	8.35	0.35	8.30
8/28/2004	15:30	21.11	8.34	0.35	8.20
8/28/2004	16:00	21.11	8.34	0.35	8.33
8/28/2004	16:30	21.11	8.34	0.35	8.30
8/28/2004	17:00	21.11	8.34	0.35	8.34
8/28/2004	17:30	21.11	8.33	0.35	8.38
8/28/2004	18:00	21.06	8.33	0.35	8.40
8/28/2004	18:30	21.00	8.31	0.35	8.40
8/28/2004	19:00	21.00	8.30	0.35	8.36
8/28/2004	19:30	20.94	8.29	0.35	8.27
8/28/2004	20:00	20.94	8.28	0.35	8.27
8/28/2004	20:30	20.94	8.27	0.35	8.14
8/28/2004	21:00	20.89	8.27	0.35	8.15
8/28/2004	21:30	20.83	8.26	0.35	8.13
8/28/2004	22:00	20.83	8.25	0.35	8.07
8/28/2004	22:30	20.78	8.25	0.35	8.03
8/28/2004	23:00	20.78	8.25	0.35	8.01
8/28/2004	23:30	20.72	8.26	0.35	8.01

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/29/2004	0:00	20.72	8.26	0.35	7.90
8/29/2004	0:30	20.72	8.26	0.35	7.91
8/29/2004	1:00	20.72	8.26	0.35	7.82
8/29/2004	1:30	20.67	8.26	0.35	7.85
8/29/2004	2:00	20.72	8.25	0.35	7.75
8/29/2004	2:30	20.67	8.25	0.35	7.77
8/29/2004	3:00	20.67	8.25	0.35	7.76
8/29/2004	3:30	20.61	8.24	0.35	7.66
8/29/2004	4:00	20.61	8.24	0.35	7.63
8/29/2004	4:30	20.56	8.24	0.35	7.66
8/29/2004	5:00	20.50	8.23	0.35	7.63
8/29/2004	5:30	20.50	8.23	0.35	7.58
8/29/2004	6:00	20.44	8.23	0.35	7.54
8/29/2004	6:30	20.44	8.24	0.35	7.56
8/29/2004	7:00	20.39	8.24	0.35	7.59
8/29/2004	7:30	20.39	8.25	0.35	7.59
8/29/2004	8:00	20.39	8.26	0.35	7.57
8/29/2004	8:30	20.39	8.27	0.35	7.62
8/29/2004	9:00	20.44	8.28	0.35	7.65
8/29/2004	9:30	20.50	8.29	0.35	7.60
8/29/2004	10:00	20.56	8.30	0.35	7.71
8/29/2004	10:30	20.58	8.30	0.35	7.65
8/29/2004	11:00	20.56	8.30	0.35	7.57
8/29/2004	11:30	20.56	8.30	0.35	7.63
8/29/2004	12:00	20.56	8.29	0.35	7.64
8/29/2004	12:30	20.56	8.28	0.35	7.52
8/29/2004	13:00	20.50	8.27	0.35	7.57
8/29/2004	13:30	20.44	8.25	0.35	7.43
8/29/2004	14:00	20.39	8.25	0.35	7.25
8/29/2004	14:30	20.33	8.23	0.35	7.23
8/29/2004	15:00	20.28	8.23	0.35	7.28
8/29/2004	15:30	20.22	8.23	0.35	7.51
8/29/2004	16:00	20.17	8.23	0.35	7.45
8/29/2004	16:30	20.11	8.23	0.35	7.45
8/29/2004	17:00	20.06	8.24	0.35	7.40
8/29/2004	17:30	20.06	8.23	0.35	7.42
8/29/2004	18:00	19.94	8.23	0.35	7.40
8/29/2004	18:30	19.89	8.22	0.35	7.29
8/29/2004	19:00	19.78	8.22	0.34	7.36
8/29/2004	19:30	19.72	8.21	0.35	7.36
8/29/2004	20:00	19.61	8.20	0.35	7.34
8/29/2004	20:30	19.56	8.19	0.34	7.27
8/29/2004	21:00	19.44	8.18	0.34	7.27
8/29/2004	21:30	19.39	8.18	0.35	7.25
8/29/2004	22:00	19.33	8.18	0.34	7.34
8/29/2004	22:30	19.28	8.18	0.34	7.29
8/29/2004	23:00	19.22	8.18	0.34	7.34
8/29/2004	23:30	19.22	8.18	0.34	7.31

2004 Water Quality Study
Tailwater Tabular Data for Month of August 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/30/2004	0:00	19.17	8.19	0.34	7.23
8/30/2004	0:30	19.17	8.18	0.34	7.32
8/30/2004	1:00	19.17	8.19	0.34	7.30
8/30/2004	1:30	19.17	8.20	0.34	7.27
8/30/2004	2:00	19.11	8.21	0.34	7.28
8/30/2004	2:30	19.11	8.20	0.34	7.34
8/30/2004	3:00	19.06	8.20	0.34	7.36
8/30/2004	3:30	19.00	8.21	0.34	7.37
8/30/2004	4:00	19.00	8.21	0.34	7.30
8/30/2004	4:30	18.94	8.21	0.34	7.30
8/30/2004	5:00	18.89	8.22	0.34	7.33
8/30/2004	5:30	18.89	8.22	0.34	7.26
8/30/2004	6:00	18.89	8.21	0.34	7.24
8/30/2004	6:30	18.89	8.21	0.34	7.23
8/30/2004	7:00	18.83	8.21	0.34	7.24
8/30/2004	7:30	18.78	8.20	0.34	7.20
8/30/2004	8:00	18.78	8.21	0.34	7.33
8/30/2004	8:30	18.78	8.21	0.34	7.29
8/30/2004	9:00	18.78	8.22	0.34	7.43
8/30/2004	9:30	18.78	8.22	0.34	7.34
8/30/2004	10:00	18.78	8.22	0.34	7.38
8/30/2004	10:30	18.72	8.22	0.34	7.33
8/30/2004	11:00	18.78	8.23	0.34	7.39
8/30/2004	11:30	18.83	8.24	0.34	7.50
8/30/2004	12:00	18.83	8.25	0.34	7.55
8/30/2004	12:30	18.83	8.26	0.34	7.57
8/30/2004	13:00	18.89	8.27	0.34	7.39
8/30/2004	13:30	18.94	8.28	0.34	7.23
8/30/2004	14:00	19.11	8.30	0.34	7.31
8/30/2004	14:30	19.22	8.32	0.34	7.34
8/30/2004	15:00	19.33	8.32	0.34	7.42
8/30/2004	15:30	19.44	8.34	0.34	7.52
8/30/2004	16:00	19.44	8.33	0.34	7.60
8/30/2004	16:30	19.50	8.32	0.34	7.54
8/30/2004	17:00	19.44	8.31	0.34	7.11
8/30/2004	17:30	19.39	8.30	0.34	7.53
8/30/2004	18:00	19.33	8.29	0.34	7.56
8/30/2004	18:30	19.22	8.29	0.34	7.61
8/30/2004	19:00	19.17	8.28	0.34	7.56
8/30/2004	19:30	19.06	8.28	0.34	7.63
8/30/2004	20:00	19.00	8.27	0.34	7.59
8/30/2004	20:30	18.89	8.25	0.34	7.58
8/30/2004	21:00	18.89	8.25	0.34	7.58
8/30/2004	21:30	18.78	8.24	0.34	7.69
8/30/2004	22:00	18.72	8.23	0.34	7.65
8/30/2004	22:30	18.72	8.23	0.34	7.72
8/30/2004	23:00	18.78	8.24	0.34	7.73
8/30/2004	23:30	18.72	8.25	0.34	7.74

2004 Water Quality Study Tailwater Tabular Data for Month of August 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
8/31/2004	0:00	18.72	8.26	0.34	7.80
8/31/2004	0:30	18.67	8.27	0.34	7.80
8/31/2004	1:00	18.67	8.27	0.34	7.78
8/31/2004	1:30	18.61	8.27	0.34	7.79
8/31/2004	2:00	18.50	8.27	0.34	7.80
8/31/2004	2:30	18.44	8.26	0.34	7.78
8/31/2004	3:00	18.39	8.26	0.34	7.78
8/31/2004	3:30	18.33	8.25	0.34	7.78
8/31/2004	4:00	18.28	8.25	0.34	7.82
8/31/2004	4:30	18.22	8.25	0.34	7.85
8/31/2004	5:00	18.22	8.25	0.34	7.81
8/31/2004	5:30	18.22	8.26	0.34	7.81
8/31/2004	6:00	18.22	8.27	0.34	7.85
8/31/2004	6:30	18.17	8.27	0.34	7.92
8/31/2004	7:00	18.17	8.28	0.34	8.21
8/31/2004	7:30	18.22	8.29	0.34	8.28
8/31/2004	8:00	18.22	8.31	0.34	8.38
8/31/2004	8:30	18.28	8.32	0.34	8.34
8/31/2004	9:00	18.39	8.34	0.34	8.48
8/31/2004	9:30	18.50	8.35	0.34	8.53
8/31/2004	10:00	18.67	8.37	0.34	8.53
8/31/2004	10:30	18.78	8.38	0.34	8.56
8/31/2004	11:00	18.94	8.39	0.34	8.55
8/31/2004	11:30	19.06	8.40	0.34	8.59
8/31/2004	12:00	19.11	8.42	0.34	8.64
8/31/2004	12:30	19.06	8.42	0.34	8.51
8/31/2004	13:00	19.17	8.43	0.34	8.59
8/31/2004	13:30	19.06	8.42	0.34	8.61
8/31/2004	14:00	19.00	8.43	0.34	8.65
8/31/2004	14:30	19.00	8.43	0.34	8.69
8/31/2004	15:00	18.94	8.43	0.34	8.64
8/31/2004	15:30	18.89	8.42	0.34	8.64
8/31/2004	16:00	18.78	8.40	0.34	8.58
8/31/2004	16:30	18.78	8.39	0.34	8.54
8/31/2004	17:00	18.67	8.39	0.34	8.52
8/31/2004	17:30	18.67	8.39	0.34	8.45
8/31/2004	18:00	18.67	8.38	0.34	8.39
8/31/2004	18:30	18.61	8.38	0.34	8.41
8/31/2004	19:00	18.61	8.37	0.34	8.37
8/31/2004	19:30	18.50	8.36	0.34	8.38
8/31/2004	20:00	18.44	8.34	0.34	8.32
8/31/2004	20:30	18.44	8.33	0.34	8.30
8/31/2004	21:00	18.39	8.33	0.34	8.26
8/31/2004	21:30	18.39	8.33	0.34	8.28
8/31/2004	22:00	18.39	8.33	0.34	8.33
8/31/2004	22:30	18.33	8.33	0.34	8.35
8/31/2004	23:00	18.28	8.33	0.34	8.38
8/31/2004	23:30	18.28	8.32	0.34	8.35

APPENDIX C

September 2004 Sampling Data

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: SEPTEMBER 1, 2004

Pre-Sampling Data:

Time: 6:30pm Barometer: 30.15 Air Temp: 17.8 °C Wind Speed: FRM NW @ 5-7

Cloud Cover: PARTLY CLOUDY

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.28 volts

YSI Calibration Time: 6:35pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.60 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	6:38 pm	8.45	18.9
1 meter	6:40 pm	8.35	18.8
2 meter	6:42 pm	8.30	18.7
3 meter	6:44 pm	8.20	18.7
100 mm above bottom	6:46 pm	8.20	18.7

Hach D.O. Sample Data

Depth	Time	D.O. (mg/l)	Temperature
100 mm below surface	6:50pm	8-9	19.0

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Huff

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: SEPTEMBER 10, 2004

Pre-Sampling Data:

Time: 3:15 pm Barometer: 30.11 Air Temp: 26.0 °C Wind Speed: FRM SE @ 8-10

Cloud Cover: CLEAR

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.26 volts

YSI Calibration Time: 3:25 pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.58 METERS

YSI 51b Sample Data

Depth	Time	D.O. (mg/L)	Temperature
100 mm below surface	3:30pm	8.10	21.0
1 meter	3:32pm	7.15	20.0
2 meter	3:34pm	7.15	19.9
3 meter	3:36pm	7.10	19.9
100 mm above bottom	3:38pm	7.00	19.9

Hach D.O. Sample Data

Depth	Time	D.O. (mg/L)	Temperature
100 mm below surface	3:45pm	8	21.1

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Huff

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: SEPTEMBER 16, 2004

Pre-Sampling Data:

Time: 4:30pm Barometer: 30.02 Air Temp: 20.6 °C Wind Speed: FRM SW @ 10-12

Cloud Cover: 20% CLOUDS

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.25 volts

YSI Calibration Time: 4:40pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.59 METERS

YSI 51b Sample Data

Depth	Time	DO (mg/l)	Temperature
100 mm below surface	4:45 pm	7.90	21.1
1 meter	4:47 pm	7.70	21.0
2 meter	4:49 pm	7.70	21.0
3 meter	4:51 pm	7.60	21.0
100 mm above bottom	4:53 pm	7.50	21.0

Hach D.O. Sample Data

Depth	Time	DO (mg/l)	Temperature
100 mm below surface	4:58 pm	7-8	21.3

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Lippert

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: SEPTEMBER 21, 2004

Pre-Sampling Data:

Time: 4:50pm Barometer: 30.13 Air Temp: 26.1 °C Wind Speed: FRM S @ 8-10

Cloud Cover: CLEAR

Precipitation within Last 24 Hours: None

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.25 volts

YSI Calibration Time: 4:55pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.57 METERS

YSI 51b Sample Data

Depth	Time	DO (mg/L)	Temp (°C)
100 mm below surface	5:00pm	9.10	20.0
1 meter	5:02pm	8.60	19.4
2 meter	5:04pm	8.55	19.2
3 meter	5:06pm	8.45	19.2
100 mm above bottom	5:08pm	8.45	19.2

Hach D.O. Sample Data

Depth	Time	DO (mg/L)	Temp (°C)
100 mm below surface	5:14pm	9	20.2

Comments: _____

Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Offler

RESERVOIR SAMPLING LOG

2004 Water Quality Study - Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Date: SEPTEMBER 27, 2004

Pre-Sampling Data:

Time: 1:25pm Barometer: 30.00 Air Temp: 26.1 °C Wind Speed: FRM SE @ 5-10

Cloud Cover: 50% CLOUD COVER WITH HIGH CIRRUS HAZE

Precipitation within Last 24 Hours: NONE

Equipment Calibration:

YSI D.O. Membrane Changed in Last 24 Hours? ☐ Yes ☒ No If Yes, Time Changed: _____

YSI Battery Status: 6.25 volts

YSI Calibration Time: 3:15pm Method: AIR (Air, Winkler Titration, Saturated Water)

Sampling Depth Profile:

Location #: 1 Measured Depth to Bottom: 3.57 METERS

YSI 51b Sample Data

100 mm below surface	3:25pm	8.70	19.5
1 meter	3:27pm	8.30	18.6
2 meter	3:29pm	8.20	18.4
3 meter	3:31pm	8.05	18.3
100 mm above bottom	3:32pm	7.95	18.3

Hach D.O. Sample Data

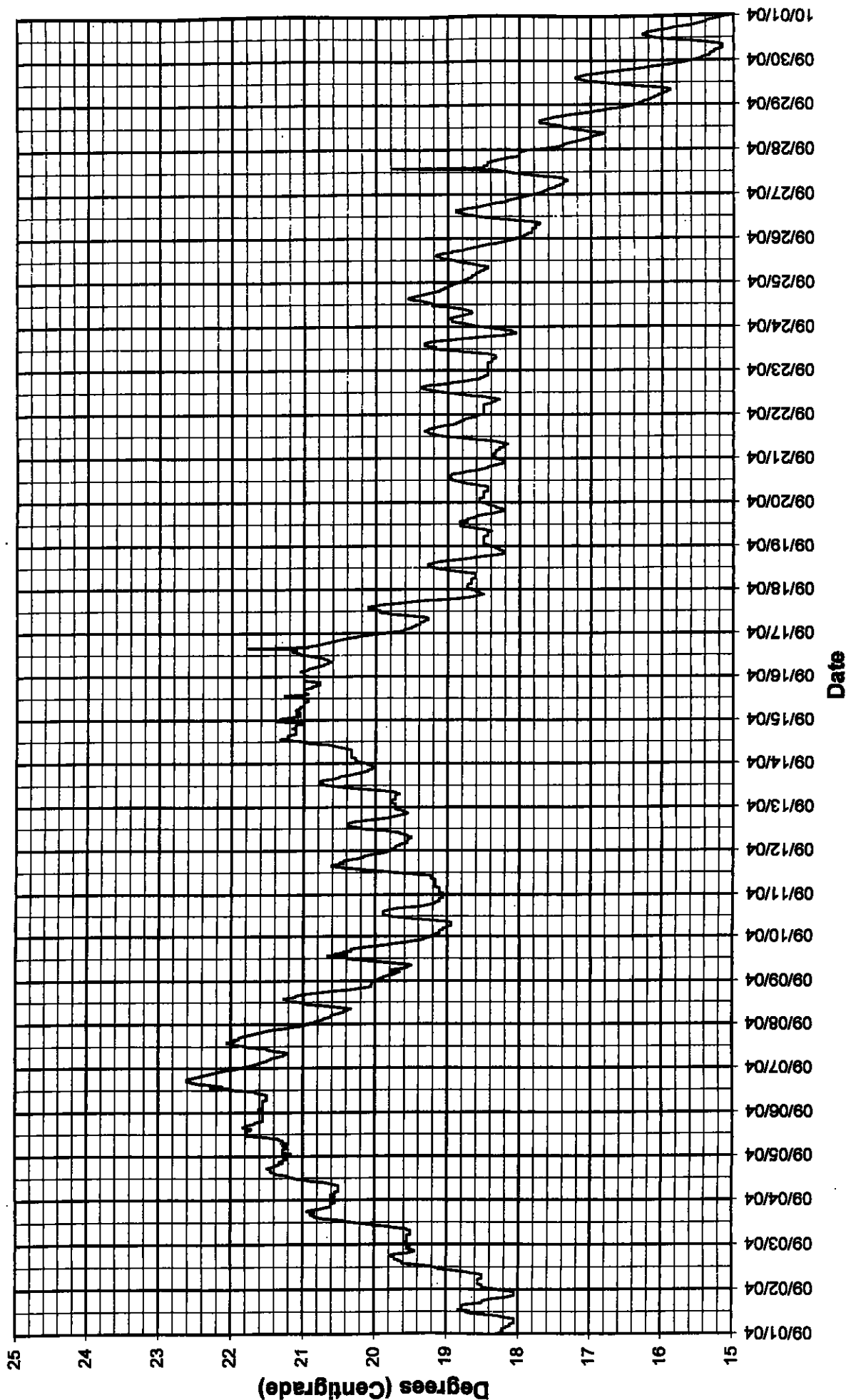
100 mm below surface	3:37pm	8-9	19.7

Comments: _____

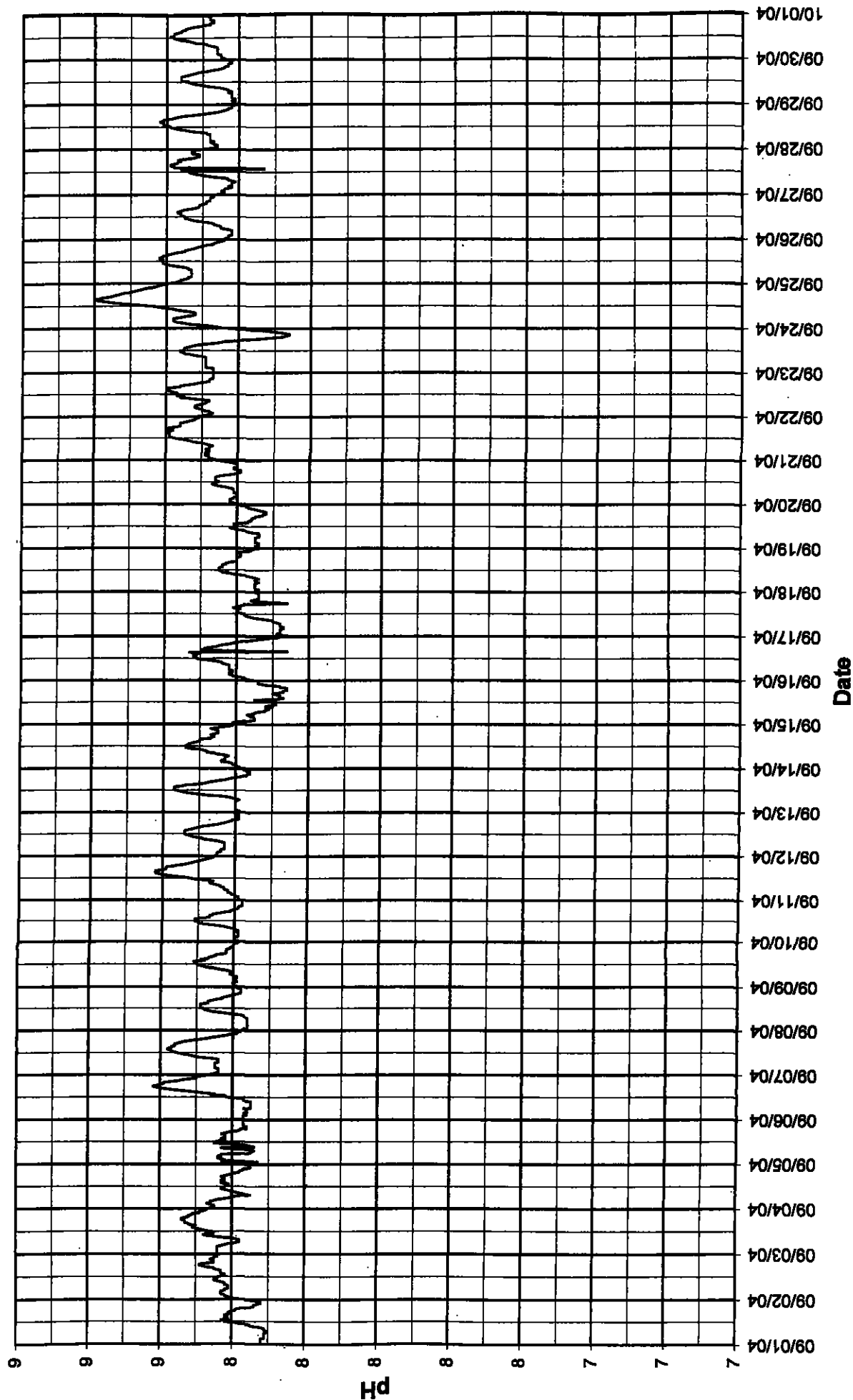
Power Production Records for Previous 24 Hours Recovered: ☒ Upper Dam ☒ Lower Dam

Performed By: Steve R. Daffler

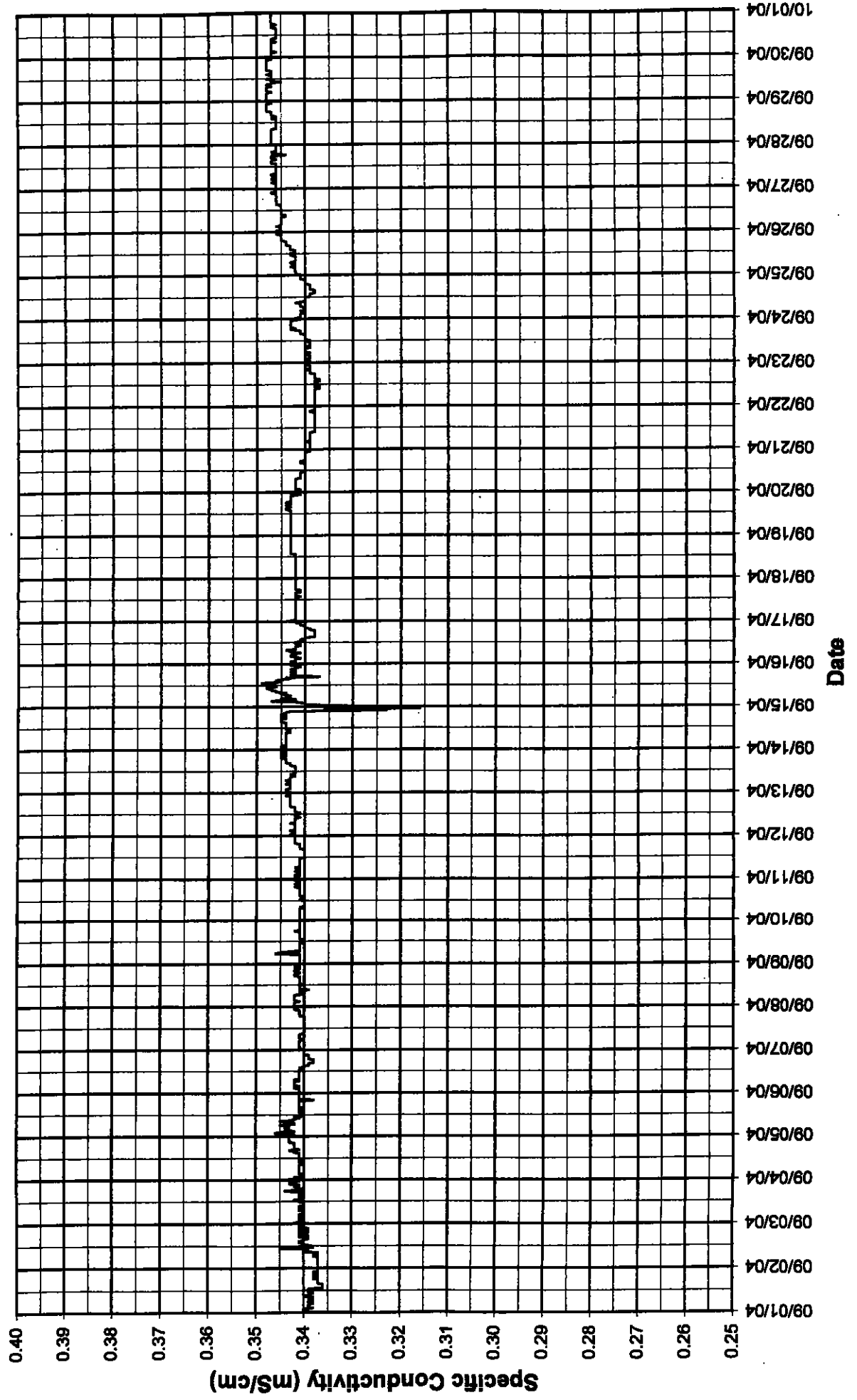
**2004 Water Quality Study
Tailwater Temperature Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



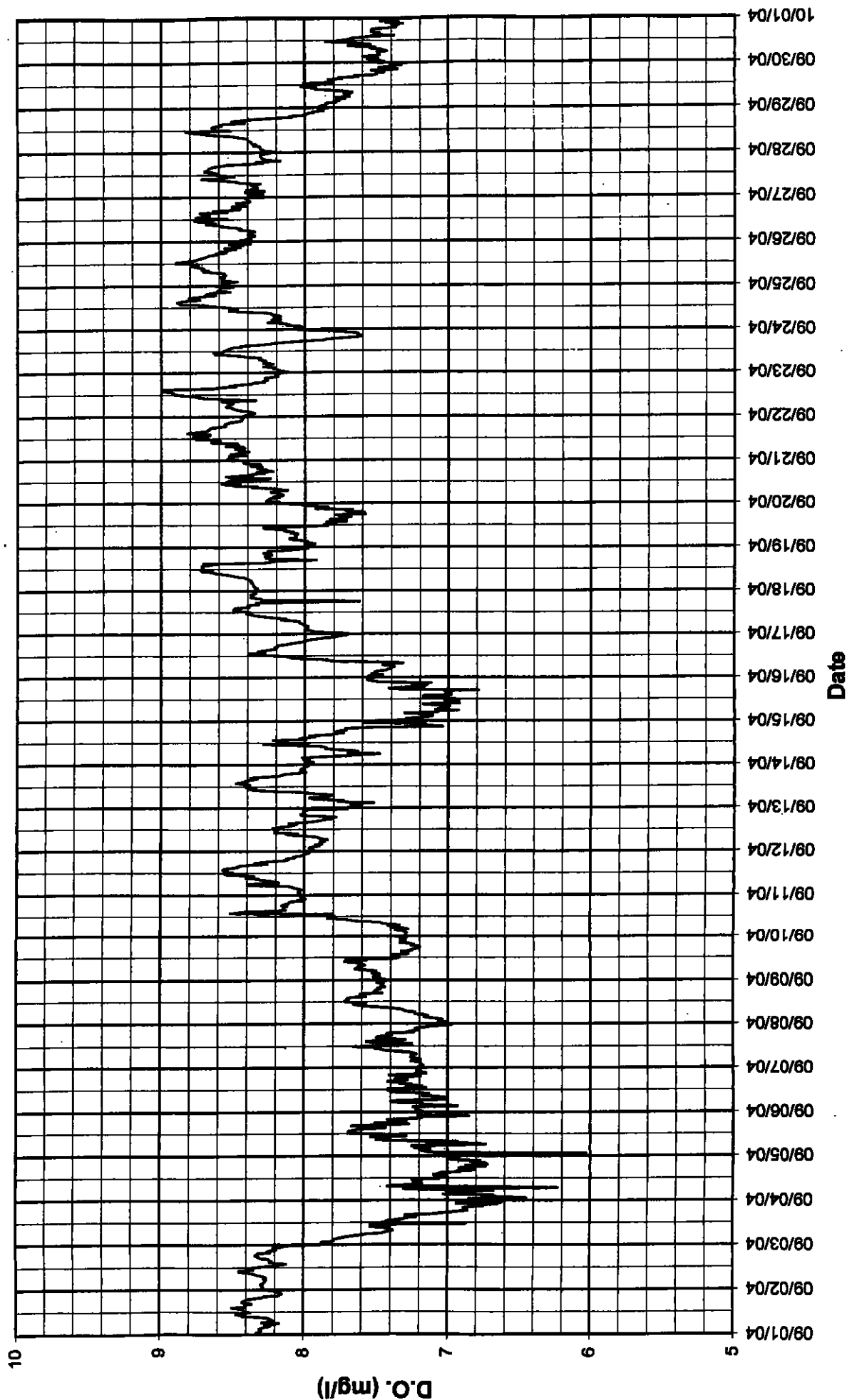
**2004 Water Quality Study
Tailwater pH Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



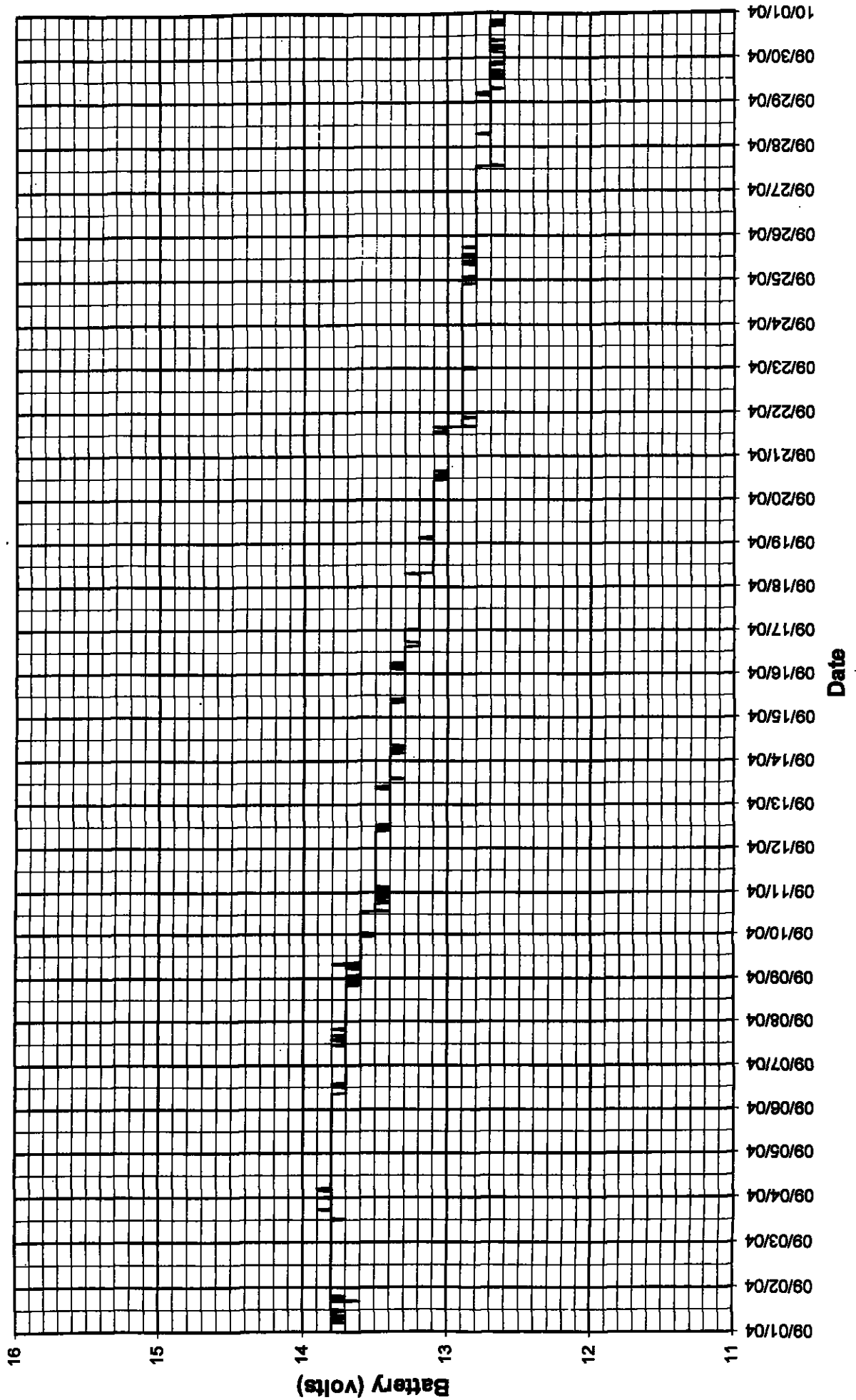
**2004 Water Quality Study
Tailwater Specific Conductivity Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



2004 Water Quality Study
Tailwater Dissolved Oxygen Sampling (mg/l)
Oconto Falls (Lower) - FERC Project No. 2689



**2004 Water Quality Study
Tailwater Hydrolab Recorder Battery Sampling
Oconto Falls (Lower) - FERC Project No. 2689**



2004 Water Quality Study
Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/1/2004	0:00	18.28	8.32	0.34	8.33
9/1/2004	0:30	18.22	8.32	0.34	8.33
9/1/2004	1:00	18.22	8.32	0.34	8.30
9/1/2004	1:30	18.22	8.32	0.34	8.29
9/1/2004	2:00	18.22	8.32	0.34	8.30
9/1/2004	2:30	18.22	8.32	0.34	8.31
9/1/2004	3:00	18.17	8.31	0.34	8.29
9/1/2004	3:30	18.17	8.31	0.34	8.27
9/1/2004	4:00	18.11	8.31	0.34	8.23
9/1/2004	4:30	18.11	8.31	0.34	8.27
9/1/2004	5:00	18.11	8.31	0.34	8.21
9/1/2004	5:30	18.06	8.31	0.34	8.17
9/1/2004	6:00	18.06	8.30	0.34	8.29
9/1/2004	6:30	18.06	8.30	0.34	8.22
9/1/2004	7:00	18.06	8.31	0.34	8.21
9/1/2004	7:30	18.06	8.31	0.34	8.22
9/1/2004	8:00	18.06	8.31	0.34	8.24
9/1/2004	8:30	18.17	8.32	0.34	8.25
9/1/2004	9:00	18.22	8.34	0.34	8.33
9/1/2004	9:30	18.28	8.35	0.34	8.43
9/1/2004	10:00	18.39	8.35	0.34	8.42
9/1/2004	10:30	18.56	8.38	0.34	8.47
9/1/2004	11:00	18.67	8.39	0.34	8.45
9/1/2004	11:30	18.72	8.42	0.34	8.37
9/1/2004	12:00	18.67	8.40	0.34	8.42
9/1/2004	12:30	18.83	8.43	0.34	8.42
9/1/2004	13:00	18.78	8.42	0.34	8.42
9/1/2004	13:30	18.78	8.41	0.34	8.45
9/1/2004	14:00	18.78	8.42	0.34	8.50
9/1/2004	14:30	18.78	8.41	0.34	8.40
9/1/2004	15:00	18.78	8.42	0.34	8.40
9/1/2004	15:30	18.72	8.41	0.34	8.41
9/1/2004	16:00	18.61	8.40	0.34	8.36
9/1/2004	16:30	18.50	8.41	0.34	8.38
9/1/2004	17:00	18.50	8.40	0.34	8.43
9/1/2004	17:30	18.50	8.39	0.34	8.42
9/1/2004	18:00	18.44	8.39	0.34	8.41
9/1/2004	18:30	18.39	8.38	0.34	8.39
9/1/2004	19:00	18.28	8.36	0.34	8.33
9/1/2004	19:30	18.17	8.34	0.34	8.29
9/1/2004	20:00	18.11	8.34	0.34	8.27
9/1/2004	20:30	18.06	8.34	0.34	8.17
9/1/2004	21:00	18.06	8.33	0.34	8.17
9/1/2004	21:30	18.06	8.32	0.34	8.15
9/1/2004	22:00	18.06	8.32	0.34	8.16
9/1/2004	22:30	18.06	8.32	0.34	8.19
9/1/2004	23:00	18.17	8.34	0.34	8.20
9/1/2004	23:30	18.28	8.36	0.34	8.25

2004 Water Quality Study
Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/2/2004	0:00	18.33	8.39	0.34	8.29
9/2/2004	0:30	18.44	8.40	0.34	8.29
9/2/2004	1:00	18.50	8.41	0.34	8.28
9/2/2004	1:30	18.50	8.42	0.34	8.29
9/2/2004	2:00	18.50	8.42	0.34	8.29
9/2/2004	2:30	18.56	8.43	0.34	8.30
9/2/2004	3:00	18.56	8.43	0.34	8.28
9/2/2004	3:30	18.56	8.43	0.34	8.28
9/2/2004	4:00	18.56	8.43	0.34	8.27
9/2/2004	4:30	18.56	8.42	0.34	8.27
9/2/2004	5:00	18.56	8.42	0.34	8.26
9/2/2004	5:30	18.50	8.41	0.34	8.28
9/2/2004	6:00	18.50	8.41	0.34	8.26
9/2/2004	6:30	18.50	8.41	0.34	8.27
9/2/2004	7:00	18.50	8.41	0.34	8.29
9/2/2004	7:30	18.50	8.42	0.34	8.32
9/2/2004	8:00	18.56	8.42	0.34	8.34
9/2/2004	8:30	18.67	8.42	0.34	8.36
9/2/2004	9:00	18.72	8.43	0.34	8.40
9/2/2004	9:30	18.83	8.44	0.34	8.45
9/2/2004	10:00	18.94	8.45	0.34	8.45
9/2/2004	10:30	19.11	8.44	0.35	8.35
9/2/2004	11:00	19.11	8.45	0.34	8.39
9/2/2004	11:30	19.17	8.44	0.34	8.37
9/2/2004	12:00	19.22	8.43	0.34	8.29
9/2/2004	12:30	19.33	8.42	0.34	8.20
9/2/2004	13:00	19.44	8.42	0.34	8.17
9/2/2004	13:30	19.61	8.43	0.34	8.12
9/2/2004	14:00	19.61	8.43	0.34	8.19
9/2/2004	14:30	19.61	8.43	0.34	8.24
9/2/2004	15:00	19.67	8.43	0.34	8.22
9/2/2004	15:30	19.67	8.44	0.34	8.24
9/2/2004	16:00	19.72	8.45	0.34	8.24
9/2/2004	16:30	19.72	8.45	0.34	8.30
9/2/2004	17:00	19.72	8.47	0.34	8.31
9/2/2004	17:30	19.78	8.48	0.34	8.32
9/2/2004	18:00	19.78	8.49	0.34	8.34
9/2/2004	18:30	19.72	8.49	0.34	8.32
9/2/2004	19:00	19.56	8.47	0.34	8.32
9/2/2004	19:30	19.50	8.45	0.34	8.23
9/2/2004	20:00	19.44	8.45	0.34	8.25
9/2/2004	20:30	19.44	8.45	0.34	8.22
9/2/2004	21:00	19.50	8.46	0.34	8.19
9/2/2004	21:30	19.56	8.45	0.34	8.20
9/2/2004	22:00	19.56	8.45	0.34	8.21
9/2/2004	22:30	19.56	8.44	0.34	8.14
9/2/2004	23:00	19.50	8.44	0.34	8.16
9/2/2004	23:30	19.56	8.45	0.34	7.95

2004 Water Quality Study
Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/3/2004	0:00	19.56	8.44	0.34	7.86
9/3/2004	0:30	19.56	8.44	0.34	7.86
9/3/2004	1:00	19.56	8.44	0.34	7.88
9/3/2004	1:30	19.56	8.44	0.34	7.80
9/3/2004	2:00	19.56	8.44	0.34	7.79
9/3/2004	2:30	19.56	8.44	0.34	7.79
9/3/2004	3:00	19.56	8.44	0.34	7.77
9/3/2004	3:30	19.56	8.44	0.34	7.74
9/3/2004	4:00	19.56	8.43	0.34	7.70
9/3/2004	4:30	19.56	8.42	0.34	7.66
9/3/2004	5:00	19.50	8.41	0.34	7.60
9/3/2004	5:30	19.50	8.39	0.34	7.56
9/3/2004	6:00	19.50	8.38	0.34	7.46
9/3/2004	6:30	19.50	8.38	0.34	7.44
9/3/2004	7:00	19.50	8.38	0.34	7.41
9/3/2004	7:30	19.56	8.39	0.34	7.38
9/3/2004	8:00	19.56	8.40	0.34	7.41
9/3/2004	8:30	19.67	8.43	0.34	7.40
9/3/2004	9:00	19.78	8.45	0.34	7.46
9/3/2004	9:30	19.83	8.47	0.34	7.54
9/3/2004	10:00	20.00	8.48	0.34	7.54
9/3/2004	10:30	20.06	8.46	0.34	7.54
9/3/2004	11:00	20.17	8.45	0.34	6.87
9/3/2004	11:30	20.28	8.45	0.34	7.47
9/3/2004	12:00	20.39	8.47	0.34	7.43
9/3/2004	12:30	20.44	8.48	0.34	7.43
9/3/2004	13:00	20.56	8.49	0.34	7.36
9/3/2004	13:30	20.72	8.50	0.34	7.31
9/3/2004	14:00	20.78	8.51	0.34	7.30
9/3/2004	14:30	20.83	8.51	0.34	7.22
9/3/2004	15:00	20.83	8.50	0.34	7.24
9/3/2004	15:30	20.89	8.52	0.34	7.30
9/3/2004	16:00	20.89	8.52	0.34	7.11
9/3/2004	16:30	20.89	8.53	0.34	7.05
9/3/2004	17:00	20.83	8.53	0.34	6.99
9/3/2004	17:30	20.94	8.53	0.34	6.93
9/3/2004	18:00	20.89	8.54	0.34	6.86
9/3/2004	18:30	20.78	8.54	0.34	6.86
9/3/2004	19:00	20.72	8.53	0.34	6.89
9/3/2004	19:30	20.67	8.52	0.34	6.89
9/3/2004	20:00	20.61	8.52	0.34	6.85
9/3/2004	20:30	20.61	8.51	0.34	6.75
9/3/2004	21:00	20.61	8.51	0.34	6.80
9/3/2004	21:30	20.61	8.49	0.34	6.65
9/3/2004	22:00	20.56	8.49	0.34	6.94
9/3/2004	22:30	20.61	8.48	0.34	6.62
9/3/2004	23:00	20.56	8.47	0.34	6.82
9/3/2004	23:30	20.56	8.47	0.34	6.85

2004 Water Quality Study
Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/4/2004	0:00	20.61	8.46	0.34	6.70
9/4/2004	0:30	20.61	8.45	0.34	6.85
9/4/2004	1:00	20.61	8.45	0.34	6.45
9/4/2004	1:30	20.56	8.45	0.34	6.59
9/4/2004	2:00	20.61	8.46	0.34	6.74
9/4/2004	2:30	20.61	8.47	0.34	6.68
9/4/2004	3:00	20.56	8.46	0.34	7.03
9/4/2004	3:30	20.56	8.46	0.34	6.81
9/4/2004	4:00	20.56	8.45	0.34	6.94
9/4/2004	4:30	20.50	8.44	0.34	7.01
9/4/2004	5:00	20.50	8.42	0.34	6.68
9/4/2004	5:30	20.50	8.40	0.34	7.17
9/4/2004	6:00	20.50	8.40	0.34	7.31
9/4/2004	6:30	20.50	8.38	0.34	6.23
9/4/2004	7:00	20.50	8.35	0.34	6.57
9/4/2004	7:30	20.50	8.37	0.34	7.42
9/4/2004	8:00	20.56	8.38	0.34	7.30
9/4/2004	8:30	20.61	8.39	0.34	7.22
9/4/2004	9:00	20.67	8.40	0.34	7.18
9/4/2004	9:30	20.72	8.41	0.34	7.24
9/4/2004	10:00	20.89	8.42	0.34	7.20
9/4/2004	10:30	20.94	8.43	0.34	7.18
9/4/2004	11:00	21.06	8.43	0.34	7.25
9/4/2004	11:30	21.11	8.42	0.34	7.06
9/4/2004	12:00	21.17	8.42	0.34	7.09
9/4/2004	12:30	21.22	8.41	0.34	7.09
9/4/2004	13:00	21.22	8.41	0.34	7.00
9/4/2004	13:30	21.33	8.43	0.34	7.10
9/4/2004	14:00	21.39	8.42	0.34	7.06
9/4/2004	14:30	21.39	8.43	0.34	7.05
9/4/2004	15:00	21.44	8.43	0.34	6.91
9/4/2004	15:30	21.44	8.42	0.34	6.93
9/4/2004	16:00	21.44	8.42	0.34	6.81
9/4/2004	16:30	21.44	8.42	0.34	6.83
9/4/2004	17:00	21.50	8.43	0.34	6.92
9/4/2004	17:30	21.44	8.42	0.34	6.88
9/4/2004	18:00	21.39	8.41	0.34	6.73
9/4/2004	18:30	21.39	8.40	0.34	6.87
9/4/2004	19:00	21.33	8.39	0.34	6.72
9/4/2004	19:30	21.33	8.38	0.34	6.73
9/4/2004	20:00	21.28	8.38	0.34	6.74
9/4/2004	20:30	21.33	8.37	0.34	6.84
9/4/2004	21:00	21.28	8.37	0.34	6.77
9/4/2004	21:30	21.28	8.36	0.34	6.96
9/4/2004	22:00	21.22	8.35	0.34	6.99
9/4/2004	22:30	21.22	8.35	0.34	6.93
9/4/2004	23:00	21.22	8.35	0.34	6.92
9/4/2004	23:30	21.28	8.36	0.34	6.97

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/5/2004	0:00	21.28	8.36	0.34	7.03
9/5/2004	0:30	21.28	8.36	0.34	6.98
9/5/2004	1:00	21.17	8.33	0.34	6.03
9/5/2004	1:30	21.28	8.43	0.35	7.09
9/5/2004	2:00	21.28	8.42	0.34	7.15
9/5/2004	2:30	21.28	8.43	0.34	7.18
9/5/2004	3:00	21.28	8.44	0.34	7.20
9/5/2004	3:30	21.28	8.43	0.34	7.12
9/5/2004	4:00	21.22	8.44	0.34	7.23
9/5/2004	4:30	21.22	8.43	0.34	7.20
9/5/2004	5:00	21.22	8.43	0.34	7.25
9/5/2004	5:30	21.28	8.36	0.34	6.91
9/5/2004	6:00	21.28	8.35	0.35	6.73
9/5/2004	6:30	21.22	8.35	0.34	6.87
9/5/2004	7:00	21.28	8.34	0.34	7.15
9/5/2004	7:30	21.28	8.35	0.34	6.93
9/5/2004	8:00	21.28	8.40	0.35	7.40
9/5/2004	8:30	21.33	8.43	0.34	7.50
9/5/2004	9:00	21.33	8.34	0.34	7.41
9/5/2004	9:30	21.44	8.35	0.34	7.40
9/5/2004	10:00	21.50	8.36	0.34	7.54
9/5/2004	10:30	21.67	8.40	0.34	7.29
9/5/2004	11:00	21.78	8.45	0.34	7.53
9/5/2004	11:30	21.78	8.45	0.34	7.45
9/5/2004	12:00	21.78	8.44	0.34	7.69
9/5/2004	12:30	21.78	8.43	0.34	7.69
9/5/2004	13:00	21.78	8.42	0.34	7.69
9/5/2004	13:30	21.78	8.43	0.34	7.65
9/5/2004	14:00	21.72	8.42	0.34	7.63
9/5/2004	14:30	21.72	8.42	0.34	7.52
9/5/2004	15:00	21.78	8.42	0.34	7.43
9/5/2004	15:30	21.83	8.42	0.34	7.57
9/5/2004	16:00	21.78	8.43	0.34	7.67
9/5/2004	16:30	21.78	8.42	0.34	7.49
9/5/2004	17:00	21.72	8.41	0.34	7.27
9/5/2004	17:30	21.67	8.39	0.34	7.51
9/5/2004	18:00	21.67	8.38	0.34	7.36
9/5/2004	18:30	21.61	8.38	0.34	7.33
9/5/2004	19:00	21.56	8.36	0.34	7.29
9/5/2004	19:30	21.56	8.37	0.34	7.42
9/5/2004	20:00	21.56	8.36	0.34	7.28
9/5/2004	20:30	21.56	8.37	0.34	7.18
9/5/2004	21:00	21.56	8.37	0.34	7.21
9/5/2004	21:30	21.56	8.37	0.34	6.85
9/5/2004	22:00	21.56	8.37	0.34	7.19
9/5/2004	22:30	21.56	8.37	0.34	7.21
9/5/2004	23:00	21.56	8.37	0.34	7.18
9/5/2004	23:30	21.56	8.37	0.34	7.19

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (°C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/6/2004	0:00	21.56	8.37	0.34	7.17
9/6/2004	0:30	21.56	8.37	0.34	7.20
9/6/2004	1:00	21.61	8.37	0.34	7.22
9/6/2004	1:30	21.61	8.37	0.34	7.22
9/6/2004	2:00	21.56	8.37	0.34	7.22
9/6/2004	2:30	21.56	8.36	0.34	7.24
9/6/2004	3:00	21.56	8.37	0.34	6.93
9/6/2004	3:30	21.56	8.36	0.34	7.11
9/6/2004	4:00	21.56	8.36	0.34	7.19
9/6/2004	4:30	21.56	8.36	0.34	7.18
9/6/2004	5:00	21.56	8.36	0.34	7.37
9/6/2004	5:30	21.56	8.37	0.34	7.40
9/6/2004	6:00	21.56	8.35	0.34	7.31
9/6/2004	6:30	21.50	8.35	0.34	7.01
9/6/2004	7:00	21.50	8.35	0.34	7.04
9/6/2004	7:30	21.50	8.35	0.34	7.02
9/6/2004	8:00	21.50	8.35	0.34	7.08
9/6/2004	8:30	21.50	8.35	0.34	7.18
9/6/2004	9:00	21.50	8.35	0.34	7.13
9/6/2004	9:30	21.56	8.35	0.34	7.13
9/6/2004	10:00	21.61	8.37	0.34	7.22
9/6/2004	10:30	21.67	8.37	0.34	7.40
9/6/2004	11:00	21.67	8.37	0.34	7.30
9/6/2004	11:30	21.89	8.41	0.34	7.42
9/6/2004	12:00	22.06	8.42	0.34	7.42
9/6/2004	12:30	22.00	8.42	0.34	7.15
9/6/2004	13:00	22.28	8.46	0.34	7.21
9/6/2004	13:30	22.11	8.45	0.34	7.18
9/6/2004	14:00	22.22	8.48	0.34	7.29
9/6/2004	14:30	22.28	8.50	0.34	7.25
9/6/2004	15:00	22.44	8.53	0.34	7.34
9/6/2004	15:30	22.50	8.56	0.34	7.34
9/6/2004	16:00	22.56	8.58	0.34	7.42
9/6/2004	16:30	22.61	8.60	0.34	7.34
9/6/2004	17:00	22.56	8.61	0.34	7.28
9/6/2004	17:30	22.61	8.62	0.34	7.37
9/6/2004	18:00	22.56	8.61	0.34	7.29
9/6/2004	18:30	22.50	8.60	0.34	7.31
9/6/2004	19:00	22.44	8.59	0.34	7.19
9/6/2004	19:30	22.39	8.59	0.34	7.41
9/6/2004	20:00	22.33	8.57	0.34	7.23
9/6/2004	20:30	22.28	8.55	0.34	7.15
9/6/2004	21:00	22.22	8.54	0.34	7.17
9/6/2004	21:30	22.17	8.52	0.34	7.19
9/6/2004	22:00	22.11	8.50	0.34	7.22
9/6/2004	22:30	22.06	8.50	0.34	7.21
9/6/2004	23:00	21.94	8.49	0.34	7.19
9/6/2004	23:30	21.89	8.47	0.34	7.20

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/7/2004	0:00	21.83	8.46	0.34	7.21
9/7/2004	0:30	21.78	8.45	0.34	7.18
9/7/2004	1:00	21.72	8.44	0.34	7.17
9/7/2004	1:30	21.67	8.44	0.34	7.19
9/7/2004	2:00	21.61	8.44	0.34	7.19
9/7/2004	2:30	21.61	8.44	0.34	7.19
9/7/2004	3:00	21.56	8.44	0.34	7.19
9/7/2004	3:30	21.50	8.45	0.34	7.26
9/7/2004	4:00	21.50	8.45	0.34	7.22
9/7/2004	4:30	21.44	8.45	0.34	7.19
9/7/2004	5:00	21.44	8.45	0.34	7.22
9/7/2004	5:30	21.39	8.45	0.34	7.26
9/7/2004	6:00	21.33	8.45	0.34	7.26
9/7/2004	6:30	21.28	8.44	0.34	7.26
9/7/2004	7:00	21.28	8.44	0.34	7.24
9/7/2004	7:30	21.22	8.44	0.34	7.22
9/7/2004	8:00	21.22	8.44	0.34	7.24
9/7/2004	8:30	21.28	8.45	0.34	7.27
9/7/2004	9:00	21.39	8.48	0.34	7.36
9/7/2004	9:30	21.44	8.50	0.34	7.44
9/7/2004	10:00	21.50	8.51	0.34	7.46
9/7/2004	10:30	21.50	8.52	0.34	7.51
9/7/2004	11:00	21.67	8.54	0.34	7.51
9/7/2004	11:30	21.78	8.55	0.34	7.66
9/7/2004	12:00	21.83	8.56	0.34	7.34
9/7/2004	12:30	21.94	8.57	0.34	7.47
9/7/2004	13:00	22.00	8.57	0.34	7.25
9/7/2004	13:30	22.06	8.58	0.34	7.50
9/7/2004	14:00	22.06	8.58	0.34	7.57
9/7/2004	14:30	21.94	8.57	0.34	7.48
9/7/2004	15:00	22.00	8.57	0.34	7.30
9/7/2004	15:30	21.89	8.56	0.34	7.39
9/7/2004	16:00	21.89	8.56	0.34	7.50
9/7/2004	16:30	21.89	8.56	0.34	7.49
9/7/2004	17:00	21.83	8.55	0.34	7.45
9/7/2004	17:30	21.78	8.54	0.34	7.39
9/7/2004	18:00	21.72	8.53	0.34	7.43
9/7/2004	18:30	21.67	8.51	0.34	7.42
9/7/2004	19:00	21.61	8.49	0.34	7.24
9/7/2004	19:30	21.56	8.47	0.34	7.27
9/7/2004	20:00	21.50	8.46	0.34	7.21
9/7/2004	20:30	21.44	8.44	0.34	7.22
9/7/2004	21:00	21.33	8.42	0.34	7.23
9/7/2004	21:30	21.22	8.41	0.34	7.19
9/7/2004	22:00	21.17	8.39	0.34	7.13
9/7/2004	22:30	21.06	8.39	0.34	7.06
9/7/2004	23:00	21.00	8.38	0.34	6.98
9/7/2004	23:30	20.94	8.38	0.34	6.97

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/8/2004	0:00	20.94	8.37	0.34	7.07
9/8/2004	0:30	20.83	8.37	0.34	7.01
9/8/2004	1:00	20.83	8.36	0.34	7.07
9/8/2004	1:30	20.78	8.36	0.34	7.05
9/8/2004	2:00	20.72	8.36	0.34	7.04
9/8/2004	2:30	20.72	8.36	0.34	7.08
9/8/2004	3:00	20.67	8.36	0.34	7.14
9/8/2004	3:30	20.61	8.36	0.34	7.17
9/8/2004	4:00	20.61	8.36	0.34	7.14
9/8/2004	4:30	20.61	8.36	0.34	7.16
9/8/2004	5:00	20.56	8.36	0.34	7.23
9/8/2004	5:30	20.50	8.36	0.34	7.23
9/8/2004	6:00	20.44	8.36	0.34	7.23
9/8/2004	6:30	20.44	8.36	0.34	7.30
9/8/2004	7:00	20.39	8.37	0.34	7.31
9/8/2004	7:30	20.39	8.37	0.34	7.32
9/8/2004	8:00	20.33	8.38	0.34	7.38
9/8/2004	8:30	20.44	8.40	0.34	7.44
9/8/2004	9:00	20.56	8.42	0.34	7.54
9/8/2004	9:30	20.67	8.44	0.34	7.60
9/8/2004	10:00	20.78	8.46	0.34	7.65
9/8/2004	10:30	20.94	8.47	0.34	7.66
9/8/2004	11:00	21.00	8.48	0.34	7.57
9/8/2004	11:30	21.00	8.48	0.34	7.71
9/8/2004	12:00	21.17	8.49	0.34	7.72
9/8/2004	12:30	21.22	8.49	0.34	7.69
9/8/2004	13:00	21.22	8.49	0.34	7.70
9/8/2004	13:30	21.28	8.49	0.34	7.70
9/8/2004	14:00	21.17	8.49	0.34	7.67
9/8/2004	14:30	21.11	8.47	0.34	7.57
9/8/2004	15:00	21.11	8.47	0.34	7.62
9/8/2004	15:30	21.06	8.47	0.34	7.61
9/8/2004	16:00	21.00	8.46	0.34	7.61
9/8/2004	16:30	20.89	8.45	0.34	7.46
9/8/2004	17:00	20.78	8.43	0.34	7.52
9/8/2004	17:30	20.67	8.43	0.34	7.51
9/8/2004	18:00	20.56	8.42	0.34	7.51
9/8/2004	18:30	20.39	8.41	0.34	7.49
9/8/2004	19:00	20.28	8.40	0.34	7.47
9/8/2004	19:30	20.22	8.39	0.34	7.49
9/8/2004	20:00	20.11	8.38	0.34	7.44
9/8/2004	20:30	20.06	8.38	0.34	7.46
9/8/2004	21:00	20.06	8.38	0.34	7.47
9/8/2004	21:30	20.06	8.38	0.34	7.46
9/8/2004	22:00	20.06	8.38	0.34	7.45
9/8/2004	22:30	20.06	8.38	0.34	7.50
9/8/2004	23:00	20.06	8.39	0.34	7.48
9/8/2004	23:30	20.00	8.39	0.34	7.43

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/9/2004	0:00	20.00	8.39	0.34	7.44
9/9/2004	0:30	19.94	8.40	0.34	7.47
9/9/2004	1:00	19.94	8.40	0.34	7.52
9/9/2004	1:30	19.89	8.40	0.34	7.52
9/9/2004	2:00	19.89	8.40	0.34	7.48
9/9/2004	2:30	19.83	8.39	0.34	7.51
9/9/2004	3:00	19.78	8.40	0.34	7.48
9/9/2004	3:30	19.72	8.40	0.34	7.53
9/9/2004	4:00	19.72	8.40	0.34	7.50
9/9/2004	4:30	19.67	8.39	0.34	7.50
9/9/2004	5:00	19.78	8.39	0.35	7.58
9/9/2004	5:30	19.78	8.40	0.35	7.65
9/9/2004	6:00	19.67	8.40	0.34	7.63
9/9/2004	6:30	19.61	8.41	0.34	7.63
9/9/2004	7:00	19.56	8.40	0.34	7.60
9/9/2004	7:30	19.56	8.40	0.34	7.58
9/9/2004	8:00	19.50	8.41	0.34	7.62
9/9/2004	8:30	19.56	8.42	0.34	7.60
9/9/2004	9:00	19.72	8.44	0.34	7.67
9/9/2004	9:30	19.83	8.45	0.34	7.72
9/9/2004	10:00	20.00	8.47	0.34	7.57
9/9/2004	10:30	20.11	8.48	0.34	7.71
9/9/2004	11:00	20.28	8.49	0.34	7.38
9/9/2004	11:30	20.39	8.50	0.34	7.35
9/9/2004	12:00	20.39	8.50	0.34	7.34
9/9/2004	12:30	20.44	8.50	0.34	7.38
9/9/2004	13:00	20.67	8.51	0.34	7.40
9/9/2004	13:30	20.39	8.48	0.34	7.28
9/9/2004	14:00	20.56	8.49	0.34	7.29
9/9/2004	14:30	20.44	8.47	0.34	7.28
9/9/2004	15:00	20.44	8.47	0.34	7.33
9/9/2004	15:30	20.33	8.46	0.34	7.25
9/9/2004	16:00	20.33	8.45	0.34	7.26
9/9/2004	16:30	20.33	8.45	0.34	7.23
9/9/2004	17:00	20.28	8.43	0.34	7.20
9/9/2004	17:30	20.17	8.42	0.34	7.20
9/9/2004	18:00	20.06	8.42	0.34	7.20
9/9/2004	18:30	19.94	8.42	0.34	7.26
9/9/2004	19:00	19.83	8.42	0.34	7.24
9/9/2004	19:30	19.78	8.42	0.34	7.27
9/9/2004	20:00	19.67	8.41	0.34	7.34
9/9/2004	20:30	19.56	8.41	0.34	7.30
9/9/2004	21:00	19.50	8.40	0.34	7.33
9/9/2004	21:30	19.39	8.40	0.34	7.30
9/9/2004	22:00	19.33	8.40	0.34	7.34
9/9/2004	22:30	19.33	8.40	0.34	7.31
9/9/2004	23:00	19.28	8.39	0.34	7.29
9/9/2004	23:30	19.22	8.40	0.34	7.36

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/10/2004	0:00	19.22	8.39	0.34	7.30
9/10/2004	0:30	19.17	8.40	0.34	7.30
9/10/2004	1:00	19.17	8.40	0.34	7.29
9/10/2004	1:30	19.11	8.40	0.34	7.30
9/10/2004	2:00	19.11	8.40	0.34	7.29
9/10/2004	2:30	19.11	8.39	0.34	7.31
9/10/2004	3:00	19.11	8.39	0.34	7.32
9/10/2004	3:30	19.06	8.39	0.34	7.37
9/10/2004	4:00	19.06	8.39	0.34	7.28
9/10/2004	4:30	19.06	8.39	0.34	7.30
9/10/2004	5:00	19.00	8.39	0.34	7.40
9/10/2004	5:30	19.00	8.40	0.34	7.39
9/10/2004	6:00	18.94	8.39	0.34	7.42
9/10/2004	6:30	18.94	8.40	0.34	7.34
9/10/2004	7:00	18.94	8.40	0.34	7.42
9/10/2004	7:30	18.94	8.41	0.34	7.46
9/10/2004	8:00	18.94	8.42	0.34	7.47
9/10/2004	8:30	19.00	8.43	0.34	7.55
9/10/2004	9:00	19.17	8.45	0.34	7.66
9/10/2004	9:30	19.28	8.47	0.34	7.68
9/10/2004	10:00	19.44	8.49	0.34	7.73
9/10/2004	10:30	19.56	8.50	0.34	7.84
9/10/2004	11:00	19.67	8.50	0.34	7.78
9/10/2004	11:30	19.78	8.51	0.34	7.81
9/10/2004	12:00	19.83	8.51	0.34	7.79
9/10/2004	12:30	19.89	8.51	0.34	7.89
9/10/2004	13:00	19.89	8.51	0.34	7.81
9/10/2004	13:30	19.89	8.49	0.34	8.52
9/10/2004	14:00	19.89	8.47	0.34	8.47
9/10/2004	14:30	19.89	8.47	0.34	8.42
9/10/2004	15:00	19.83	8.47	0.34	8.19
9/10/2004	15:30	19.78	8.46	0.34	8.13
9/10/2004	16:00	19.72	8.46	0.34	8.15
9/10/2004	16:30	19.61	8.44	0.34	8.15
9/10/2004	17:00	19.44	8.43	0.34	8.15
9/10/2004	17:30	19.33	8.41	0.34	8.12
9/10/2004	18:00	19.28	8.41	0.34	8.16
9/10/2004	18:30	19.22	8.40	0.34	8.14
9/10/2004	19:00	19.17	8.39	0.34	8.11
9/10/2004	19:30	19.17	8.39	0.34	8.11
9/10/2004	20:00	19.11	8.39	0.34	8.10
9/10/2004	20:30	19.11	8.38	0.34	8.01
9/10/2004	21:00	19.11	8.38	0.34	8.05
9/10/2004	21:30	19.11	8.38	0.34	7.99
9/10/2004	22:00	19.06	8.38	0.34	8.02
9/10/2004	22:30	19.06	8.38	0.34	8.02
9/10/2004	23:00	19.06	8.38	0.34	8.03
9/10/2004	23:30	19.06	8.38	0.34	8.03

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/11/2004	0:00	19.06	8.39	0.34	8.03
9/11/2004	0:30	19.06	8.39	0.34	8.03
9/11/2004	1:00	19.11	8.39	0.34	8.05
9/11/2004	1:30	19.11	8.39	0.34	8.03
9/11/2004	2:00	19.11	8.40	0.34	8.04
9/11/2004	2:30	19.11	8.40	0.34	8.02
9/11/2004	3:00	19.11	8.41	0.34	8.05
9/11/2004	3:30	19.11	8.41	0.34	8.07
9/11/2004	4:00	19.17	8.42	0.34	8.09
9/11/2004	4:30	19.17	8.42	0.34	8.12
9/11/2004	5:00	19.17	8.42	0.34	8.38
9/11/2004	5:30	19.17	8.43	0.34	8.40
9/11/2004	6:00	19.17	8.43	0.34	8.32
9/11/2004	6:30	19.17	8.43	0.34	8.18
9/11/2004	7:00	19.17	8.44	0.34	8.22
9/11/2004	7:30	19.17	8.44	0.34	8.25
9/11/2004	8:00	19.17	8.45	0.34	8.31
9/11/2004	8:30	19.22	8.46	0.34	8.32
9/11/2004	9:00	19.22	8.47	0.34	8.41
9/11/2004	9:30	19.22	8.47	0.34	8.41
9/11/2004	10:00	19.22	8.46	0.34	8.35
9/11/2004	10:30	19.33	8.47	0.34	8.44
9/11/2004	11:00	19.50	8.50	0.34	8.54
9/11/2004	11:30	19.67	8.52	0.34	8.56
9/11/2004	12:00	19.83	8.53	0.34	8.50
9/11/2004	12:30	19.94	8.56	0.34	8.56
9/11/2004	13:00	20.11	8.58	0.34	8.54
9/11/2004	13:30	20.22	8.60	0.34	8.57
9/11/2004	14:00	20.39	8.61	0.34	8.55
9/11/2004	14:30	20.50	8.62	0.34	8.50
9/11/2004	15:00	20.61	8.62	0.34	8.46
9/11/2004	15:30	20.61	8.62	0.34	8.46
9/11/2004	16:00	20.56	8.60	0.34	8.39
9/11/2004	16:30	20.44	8.59	0.34	8.26
9/11/2004	17:00	20.50	8.59	0.34	8.35
9/11/2004	17:30	20.44	8.59	0.34	8.29
9/11/2004	18:00	20.44	8.57	0.34	8.24
9/11/2004	18:30	20.39	8.56	0.34	8.14
9/11/2004	19:00	20.28	8.54	0.34	8.11
9/11/2004	19:30	20.22	8.53	0.34	8.13
9/11/2004	20:00	20.17	8.52	0.34	8.07
9/11/2004	20:30	20.17	8.51	0.34	8.08
9/11/2004	21:00	20.11	8.50	0.34	8.03
9/11/2004	21:30	20.06	8.49	0.34	8.01
9/11/2004	22:00	19.94	8.48	0.34	8.00
9/11/2004	22:30	19.89	8.47	0.34	7.97
9/11/2004	23:00	19.83	8.46	0.34	7.97
9/11/2004	23:30	19.83	8.46	0.34	7.96

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/12/2004	0:00	19.78	8.45	0.34	7.93
9/12/2004	0:30	19.78	8.45	0.34	7.95
9/12/2004	1:00	19.72	8.45	0.34	7.94
9/12/2004	1:30	19.72	8.45	0.34	7.97
9/12/2004	2:00	19.72	8.44	0.34	7.94
9/12/2004	2:30	19.67	8.44	0.34	7.90
9/12/2004	3:00	19.67	8.44	0.34	7.93
9/12/2004	3:30	19.61	8.43	0.34	7.88
9/12/2004	4:00	19.56	8.43	0.34	7.90
9/12/2004	4:30	19.56	8.43	0.34	7.89
9/12/2004	5:00	19.56	8.43	0.34	7.86
9/12/2004	5:30	19.56	8.43	0.34	7.89
9/12/2004	6:00	19.56	8.43	0.34	7.84
9/12/2004	6:30	19.50	8.43	0.34	7.89
9/12/2004	7:00	19.50	8.43	0.34	7.90
9/12/2004	7:30	19.56	8.44	0.34	7.92
9/12/2004	8:00	19.56	8.45	0.34	7.98
9/12/2004	8:30	19.61	8.47	0.34	8.07
9/12/2004	9:00	19.67	8.49	0.34	8.13
9/12/2004	9:30	19.67	8.49	0.34	8.05
9/12/2004	10:00	19.78	8.51	0.34	8.21
9/12/2004	10:30	19.83	8.52	0.34	8.21
9/12/2004	11:00	20.00	8.53	0.34	8.19
9/12/2004	11:30	20.17	8.54	0.34	8.19
9/12/2004	12:00	20.22	8.54	0.34	8.18
9/12/2004	12:30	20.28	8.54	0.34	8.22
9/12/2004	13:00	20.39	8.54	0.34	8.16
9/12/2004	13:30	20.39	8.54	0.34	8.10
9/12/2004	14:00	20.39	8.53	0.34	8.08
9/12/2004	14:30	20.39	8.52	0.34	8.06
9/12/2004	15:00	20.33	8.51	0.34	8.11
9/12/2004	15:30	20.28	8.50	0.34	8.02
9/12/2004	16:00	20.17	8.49	0.34	7.94
9/12/2004	16:30	20.06	8.47	0.34	7.90
9/12/2004	17:00	19.94	8.45	0.34	7.86
9/12/2004	17:30	19.83	8.44	0.34	7.81
9/12/2004	18:00	19.78	8.43	0.34	7.87
9/12/2004	18:30	19.72	8.42	0.34	7.78
9/12/2004	19:00	19.67	8.41	0.34	7.86
9/12/2004	19:30	19.61	8.41	0.34	8.02
9/12/2004	20:00	19.56	8.39	0.34	8.03
9/12/2004	20:30	19.56	8.39	0.34	8.01
9/12/2004	21:00	19.61	8.39	0.34	8.01
9/12/2004	21:30	19.61	8.40	0.34	8.00
9/12/2004	22:00	19.67	8.39	0.34	8.01
9/12/2004	22:30	19.72	8.40	0.34	7.99
9/12/2004	23:00	19.72	8.40	0.34	7.70
9/12/2004	23:30	19.72	8.39	0.34	7.72

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Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/13/2004	0:00	19.72	8.40	0.34	7.70
9/13/2004	0:30	19.72	8.39	0.34	7.61
9/13/2004	1:00	19.72	8.40	0.34	7.65
9/13/2004	1:30	19.72	8.40	0.34	7.68
9/13/2004	2:00	19.78	8.40	0.34	7.68
9/13/2004	2:30	19.78	8.40	0.34	7.52
9/13/2004	3:00	19.78	8.40	0.34	7.70
9/13/2004	3:30	19.78	8.40	0.34	7.77
9/13/2004	4:00	19.72	8.40	0.34	7.73
9/13/2004	4:30	19.72	8.40	0.34	7.93
9/13/2004	5:00	19.72	8.40	0.34	7.95
9/13/2004	5:30	19.72	8.40	0.34	7.97
9/13/2004	6:00	19.72	8.40	0.34	7.84
9/13/2004	6:30	19.72	8.39	0.34	7.83
9/13/2004	7:00	19.67	8.40	0.34	7.80
9/13/2004	7:30	19.72	8.41	0.34	7.91
9/13/2004	8:00	19.72	8.42	0.34	7.96
9/13/2004	8:30	19.83	8.44	0.34	8.02
9/13/2004	9:00	19.94	8.48	0.34	8.19
9/13/2004	9:30	20.11	8.50	0.34	8.30
9/13/2004	10:00	20.28	8.52	0.34	8.37
9/13/2004	10:30	20.39	8.54	0.34	8.39
9/13/2004	11:00	20.50	8.55	0.34	8.34
9/13/2004	11:30	20.61	8.56	0.34	8.41
9/13/2004	12:00	20.72	8.57	0.34	8.42
9/13/2004	12:30	20.72	8.57	0.34	8.38
9/13/2004	13:00	20.78	8.57	0.34	8.40
9/13/2004	13:30	20.78	8.57	0.34	8.48
9/13/2004	14:00	20.78	8.55	0.34	8.44
9/13/2004	14:30	20.72	8.54	0.34	8.42
9/13/2004	15:00	20.61	8.51	0.34	8.41
9/13/2004	15:30	20.56	8.49	0.34	8.36
9/13/2004	16:00	20.50	8.48	0.34	8.33
9/13/2004	16:30	20.50	8.47	0.34	8.38
9/13/2004	17:00	20.39	8.45	0.34	8.27
9/13/2004	17:30	20.33	8.43	0.34	8.18
9/13/2004	18:00	20.28	8.42	0.34	8.16
9/13/2004	18:30	20.22	8.41	0.34	8.13
9/13/2004	19:00	20.17	8.39	0.35	8.05
9/13/2004	19:30	20.11	8.38	0.35	7.99
9/13/2004	20:00	20.11	8.37	0.34	8.03
9/13/2004	20:30	20.06	8.37	0.34	8.02
9/13/2004	21:00	20.06	8.36	0.35	8.03
9/13/2004	21:30	20.00	8.36	0.34	8.02
9/13/2004	22:00	20.06	8.36	0.35	8.00
9/13/2004	22:30	20.06	8.37	0.34	8.00
9/13/2004	23:00	20.11	8.38	0.35	7.98
9/13/2004	23:30	20.11	8.38	0.34	7.97

2004 Water Quality Study
Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/14/2004	0:00	20.17	8.39	0.34	7.95
9/14/2004	0:30	20.22	8.39	0.35	8.00
9/14/2004	1:00	20.28	8.40	0.34	7.94
9/14/2004	1:30	20.28	8.40	0.35	7.97
9/14/2004	2:00	20.28	8.41	0.34	7.98
9/14/2004	2:30	20.28	8.41	0.34	8.01
9/14/2004	3:00	20.33	8.42	0.34	7.97
9/14/2004	3:30	20.33	8.44	0.34	8.02
9/14/2004	4:00	20.33	8.44	0.34	7.90
9/14/2004	4:30	20.33	8.43	0.34	7.70
9/14/2004	5:00	20.33	8.43	0.34	7.64
9/14/2004	5:30	20.33	8.43	0.34	7.48
9/14/2004	6:00	20.33	8.43	0.34	7.70
9/14/2004	6:30	20.33	8.42	0.34	7.68
9/14/2004	7:00	20.33	8.43	0.34	7.63
9/14/2004	7:30	20.39	8.45	0.34	7.72
9/14/2004	8:00	20.44	8.46	0.34	7.80
9/14/2004	8:30	20.50	8.48	0.34	7.86
9/14/2004	9:00	20.56	8.48	0.34	7.85
9/14/2004	9:30	20.61	8.49	0.34	7.87
9/14/2004	10:00	20.67	8.50	0.34	7.93
9/14/2004	10:30	20.83	8.53	0.34	8.17
9/14/2004	11:00	21.00	8.54	0.34	8.29
9/14/2004	11:30	20.94	8.53	0.34	8.11
9/14/2004	12:00	21.11	8.54	0.34	8.14
9/14/2004	12:30	21.22	8.53	0.34	8.15
9/14/2004	13:00	21.33	8.53	0.34	8.22
9/14/2004	13:30	21.22	8.52	0.34	7.99
9/14/2004	14:00	21.22	8.51	0.34	8.04
9/14/2004	14:30	21.22	8.50	0.34	7.97
9/14/2004	15:00	21.22	8.50	0.35	7.93
9/14/2004	15:30	21.17	8.50	0.35	7.97
9/14/2004	16:00	21.11	8.47	0.35	7.81
9/14/2004	16:30	21.11	8.47	0.35	7.80
9/14/2004	17:00	21.11	8.46	0.34	7.73
9/14/2004	17:30	21.11	8.46	0.35	7.79
9/14/2004	18:00	21.11	8.47	0.34	7.77
9/14/2004	18:30	21.11	8.46	0.35	7.71
9/14/2004	19:00	21.17	8.45	0.34	7.71
9/14/2004	19:30	21.11	8.45	0.35	7.72
9/14/2004	20:00	21.11	8.45	0.34	7.55
9/14/2004	20:30	21.11	8.45	0.34	7.04
9/14/2004	21:00	21.11	8.46	0.34	7.13
9/14/2004	21:30	21.00	8.47	0.32	7.20
9/14/2004	22:00	21.06	8.45	0.34	7.16
9/14/2004	22:30	21.17	8.43	0.32	7.59
9/14/2004	23:00	21.39	8.41	0.32	7.25
9/14/2004	23:30	21.39	8.41	0.33	7.42

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/15/2004	0:00	21.33	8.41	0.33	7.37
9/15/2004	0:30	21.33	8.41	0.34	7.26
9/15/2004	1:00	21.22	8.40	0.34	7.30
9/15/2004	1:30	21.11	8.37	0.34	7.19
9/15/2004	2:00	21.06	8.35	0.34	7.14
9/15/2004	2:30	21.06	8.35	0.34	7.11
9/15/2004	3:00	21.11	8.35	0.35	7.11
9/15/2004	3:30	21.11	8.35	0.35	7.19
9/15/2004	4:00	21.06	8.36	0.34	7.31
9/15/2004	4:30	21.11	8.36	0.35	7.08
9/15/2004	5:00	21.11	8.37	0.34	7.09
9/15/2004	5:30	21.11	8.35	0.34	6.93
9/15/2004	6:00	21.06	8.35	0.34	7.09
9/15/2004	6:30	21.06	8.34	0.34	7.04
9/15/2004	7:00	21.06	8.32	0.35	7.06
9/15/2004	7:30	21.00	8.32	0.34	7.00
9/15/2004	8:00	21.00	8.31	0.35	6.99
9/15/2004	8:30	21.00	8.32	0.35	7.11
9/15/2004	9:00	21.00	8.30	0.35	7.18
9/15/2004	9:30	21.00	8.32	0.35	6.92
9/15/2004	10:00	20.94	8.31	0.35	6.99
9/15/2004	10:30	20.94	8.29	0.35	7.00
9/15/2004	11:00	20.94	8.30	0.35	7.03
9/15/2004	11:30	20.94	8.30	0.35	6.92
9/15/2004	12:00	21.06	8.30	0.35	7.00
9/15/2004	12:30	21.11	8.29	0.35	7.10
9/15/2004	13:00	21.28	8.35	0.35	7.18
9/15/2004	13:30	21.00	8.29	0.35	7.17
9/15/2004	14:00	20.94	8.27	0.35	6.98
9/15/2004	14:30	21.00	8.28	0.35	7.02
9/15/2004	15:00	21.00	8.28	0.35	6.98
9/15/2004	15:30	21.00	8.28	0.34	7.01
9/15/2004	16:00	21.00	8.29	0.34	7.03
9/15/2004	16:30	21.00	8.30	0.34	6.79
9/15/2004	17:00	20.94	8.28	0.34	7.33
9/15/2004	17:30	20.89	8.27	0.34	7.42
9/15/2004	18:00	20.89	8.27	0.34	7.34
9/15/2004	18:30	20.83	8.26	0.34	7.17
9/15/2004	19:00	20.78	8.26	0.34	7.17
9/15/2004	19:30	20.78	8.26	0.34	7.15
9/15/2004	20:00	20.83	8.28	0.34	7.26
9/15/2004	20:30	20.78	8.28	0.34	7.12
9/15/2004	21:00	20.94	8.31	0.34	7.48
9/15/2004	21:30	21.00	8.33	0.34	7.53
9/15/2004	22:00	21.00	8.34	0.34	7.56
9/15/2004	22:30	21.00	8.34	0.34	7.57
9/15/2004	23:00	21.00	8.34	0.34	7.53
9/15/2004	23:30	21.00	8.34	0.34	7.52

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Tallwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/16/2004	0:00	20.94	8.36	0.34	7.53
9/16/2004	0:30	21.00	8.37	0.34	7.56
9/16/2004	1:00	21.00	8.38	0.34	7.46
9/16/2004	1:30	21.00	8.39	0.34	7.54
9/16/2004	2:00	21.00	8.41	0.34	7.50
9/16/2004	2:30	21.06	8.41	0.34	7.52
9/16/2004	3:00	21.00	8.42	0.34	7.50
9/16/2004	3:30	20.94	8.42	0.34	7.44
9/16/2004	4:00	20.94	8.42	0.34	7.43
9/16/2004	4:30	20.89	8.41	0.34	7.40
9/16/2004	5:00	20.83	8.41	0.34	7.40
9/16/2004	5:30	20.78	8.42	0.34	7.38
9/16/2004	6:00	20.72	8.42	0.34	7.41
9/16/2004	6:30	20.72	8.42	0.34	7.46
9/16/2004	7:00	20.67	8.42	0.34	7.45
9/16/2004	7:30	20.67	8.42	0.34	7.32
9/16/2004	8:00	20.61	8.42	0.34	7.38
9/16/2004	8:30	20.67	8.43	0.34	7.76
9/16/2004	9:00	20.67	8.44	0.34	7.85
9/16/2004	9:30	20.72	8.44	0.34	7.84
9/16/2004	10:00	20.72	8.45	0.34	7.99
9/16/2004	10:30	20.83	8.47	0.34	8.09
9/16/2004	11:00	20.89	8.49	0.34	8.11
9/16/2004	11:30	20.94	8.51	0.34	8.13
9/16/2004	12:00	21.06	8.51	0.34	8.24
9/16/2004	12:30	21.06	8.52	0.34	8.36
9/16/2004	13:00	21.11	8.52	0.34	8.39
9/16/2004	13:30	21.17	8.51	0.34	8.28
9/16/2004	14:00	21.11	8.51	0.34	8.33
9/16/2004	14:30	21.11	8.50	0.34	8.30
9/16/2004	15:00	21.11	8.53	0.34	8.25
9/16/2004	15:30	21.78	8.26	0.34	8.21
9/16/2004	16:00	20.94	8.50	0.34	8.20
9/16/2004	16:30	20.94	8.49	0.34	8.21
9/16/2004	17:00	20.83	8.49	0.34	8.19
9/16/2004	17:30	20.78	8.48	0.34	8.19
9/16/2004	18:00	20.72	8.46	0.34	8.13
9/16/2004	18:30	20.67	8.45	0.34	8.10
9/16/2004	19:00	20.61	8.44	0.34	8.06
9/16/2004	19:30	20.56	8.42	0.34	8.01
9/16/2004	20:00	20.50	8.41	0.34	8.00
9/16/2004	20:30	20.44	8.40	0.34	7.97
9/16/2004	21:00	20.39	8.38	0.34	7.92
9/16/2004	21:30	20.28	8.36	0.34	7.86
9/16/2004	22:00	20.22	8.34	0.34	7.80
9/16/2004	22:30	20.11	8.32	0.34	7.76
9/16/2004	23:00	20.00	8.29	0.34	7.71
9/16/2004	23:30	19.89	8.28	0.34	7.70

2004 Water Quality Study
Tallwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/17/2004	0:00	19.83	8.26	0.34	7.70
9/17/2004	0:30	19.67	8.28	0.34	7.86
9/17/2004	1:00	19.61	8.29	0.34	7.94
9/17/2004	1:30	19.61	8.28	0.34	7.96
9/17/2004	2:00	19.56	8.28	0.34	7.99
9/17/2004	2:30	19.50	8.28	0.34	8.00
9/17/2004	3:00	19.50	8.28	0.34	7.98
9/17/2004	3:30	19.44	8.28	0.34	8.00
9/17/2004	4:00	19.44	8.27	0.34	7.98
9/17/2004	4:30	19.39	8.27	0.34	8.01
9/17/2004	5:00	19.39	8.28	0.34	8.01
9/17/2004	5:30	19.39	8.28	0.34	8.03
9/17/2004	6:00	19.33	8.28	0.34	8.04
9/17/2004	6:30	19.33	8.28	0.34	8.04
9/17/2004	7:00	19.28	8.29	0.34	8.09
9/17/2004	7:30	19.28	8.30	0.34	8.17
9/17/2004	8:00	19.28	8.30	0.34	8.13
9/17/2004	8:30	19.33	8.31	0.34	8.19
9/17/2004	9:00	19.50	8.33	0.34	8.25
9/17/2004	9:30	19.61	8.35	0.34	8.31
9/17/2004	10:00	19.78	8.36	0.34	8.35
9/17/2004	10:30	19.83	8.37	0.34	8.38
9/17/2004	11:00	19.94	8.38	0.34	8.41
9/17/2004	11:30	19.94	8.38	0.34	8.37
9/17/2004	12:00	19.94	8.39	0.34	8.39
9/17/2004	12:30	20.00	8.40	0.34	8.49
9/17/2004	13:00	20.11	8.40	0.34	8.50
9/17/2004	13:30	20.06	8.40	0.34	8.49
9/17/2004	14:00	20.11	8.40	0.34	8.49
9/17/2004	14:30	20.00	8.39	0.34	8.39
9/17/2004	15:00	19.94	8.41	0.34	8.40
9/17/2004	15:30	19.83	8.40	0.34	8.40
9/17/2004	16:00	19.67	8.39	0.34	8.32
9/17/2004	16:30	19.56	8.38	0.34	8.32
9/17/2004	17:00	19.44	8.38	0.34	8.34
9/17/2004	17:30	19.33	8.26	0.34	7.62
9/17/2004	18:00	19.06	8.29	0.34	7.82
9/17/2004	18:30	18.89	8.35	0.34	8.30
9/17/2004	19:00	18.78	8.36	0.34	8.30
9/17/2004	19:30	18.67	8.35	0.34	8.35
9/17/2004	20:00	18.61	8.34	0.34	8.38
9/17/2004	20:30	18.56	8.34	0.34	8.37
9/17/2004	21:00	18.50	8.34	0.34	8.36
9/17/2004	21:30	18.56	8.34	0.34	8.38
9/17/2004	22:00	18.56	8.34	0.34	8.35
9/17/2004	22:30	18.61	8.34	0.34	8.34
9/17/2004	23:00	18.61	8.34	0.34	8.34
9/17/2004	23:30	18.67	8.35	0.34	8.35

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Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/18/2004	0:00	18.67	8.35	0.34	8.34
9/18/2004	0:30	18.72	8.34	0.34	8.33
9/18/2004	1:00	18.72	8.34	0.34	8.33
9/18/2004	1:30	18.72	8.35	0.34	8.35
9/18/2004	2:00	18.72	8.35	0.34	8.35
9/18/2004	2:30	18.72	8.35	0.34	8.36
9/18/2004	3:00	18.67	8.35	0.34	8.36
9/18/2004	3:30	18.67	8.35	0.34	8.36
9/18/2004	4:00	18.67	8.35	0.34	8.37
9/18/2004	4:30	18.67	8.35	0.34	8.38
9/18/2004	5:00	18.67	8.34	0.34	8.37
9/18/2004	5:30	18.67	8.35	0.34	8.38
9/18/2004	6:00	18.61	8.35	0.34	8.39
9/18/2004	6:30	18.61	8.35	0.34	8.41
9/18/2004	7:00	18.61	8.34	0.34	8.42
9/18/2004	7:30	18.61	8.35	0.34	8.47
9/18/2004	8:00	18.61	8.36	0.34	8.51
9/18/2004	8:30	18.61	8.37	0.34	8.53
9/18/2004	9:00	18.72	8.39	0.34	8.58
9/18/2004	9:30	18.83	8.41	0.34	8.63
9/18/2004	10:00	18.94	8.42	0.34	8.64
9/18/2004	10:30	19.00	8.44	0.34	8.72
9/18/2004	11:00	19.11	8.44	0.34	8.72
9/18/2004	11:30	19.17	8.45	0.34	8.73
9/18/2004	12:00	19.22	8.45	0.34	8.71
9/18/2004	12:30	19.28	8.45	0.34	8.72
9/18/2004	13:00	19.28	8.45	0.34	8.72
9/18/2004	13:30	19.28	8.44	0.34	8.71
9/18/2004	14:00	19.22	8.44	0.34	8.65
9/18/2004	14:30	19.17	8.44	0.34	8.71
9/18/2004	15:00	19.11	8.43	0.34	8.28
9/18/2004	15:30	19.00	8.43	0.34	8.24
9/18/2004	16:00	18.89	8.42	0.34	8.20
9/18/2004	16:30	18.78	8.40	0.34	7.92
9/18/2004	17:00	18.67	8.40	0.34	8.21
9/18/2004	17:30	18.61	8.40	0.34	8.27
9/18/2004	18:00	18.50	8.40	0.34	8.27
9/18/2004	18:30	18.39	8.40	0.34	8.28
9/18/2004	19:00	18.28	8.39	0.34	8.25
9/18/2004	19:30	18.22	8.39	0.34	8.23
9/18/2004	20:00	18.22	8.39	0.34	8.27
9/18/2004	20:30	18.22	8.39	0.34	8.29
9/18/2004	21:00	18.22	8.40	0.34	8.24
9/18/2004	21:30	18.28	8.39	0.34	8.26
9/18/2004	22:00	18.28	8.37	0.34	8.12
9/18/2004	22:30	18.33	8.36	0.34	8.05
9/18/2004	23:00	18.33	8.36	0.34	7.98
9/18/2004	23:30	18.39	8.35	0.34	8.12

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Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/19/2004	0:00	18.44	8.35	0.34	8.01
9/19/2004	0:30	18.44	8.35	0.34	7.99
9/19/2004	1:00	18.50	8.35	0.34	8.00
9/19/2004	1:30	18.50	8.34	0.34	7.93
9/19/2004	2:00	18.50	8.34	0.34	7.97
9/19/2004	2:30	18.50	8.34	0.34	7.98
9/19/2004	3:00	18.50	8.35	0.34	7.99
9/19/2004	3:30	18.50	8.35	0.34	8.04
9/19/2004	4:00	18.50	8.35	0.34	8.10
9/19/2004	4:30	18.50	8.35	0.34	8.11
9/19/2004	5:00	18.50	8.35	0.34	8.06
9/19/2004	5:30	18.44	8.35	0.34	8.07
9/19/2004	6:00	18.44	8.34	0.34	8.07
9/19/2004	6:30	18.44	8.34	0.34	8.06
9/19/2004	7:00	18.44	8.34	0.34	8.05
9/19/2004	7:30	18.44	8.34	0.34	8.10
9/19/2004	8:00	18.39	8.34	0.34	8.08
9/19/2004	8:30	18.44	8.36	0.34	8.14
9/19/2004	9:00	18.50	8.37	0.34	8.13
9/19/2004	9:30	18.61	8.38	0.34	8.20
9/19/2004	10:00	18.67	8.40	0.34	8.28
9/19/2004	10:30	18.78	8.41	0.34	8.29
9/19/2004	11:00	18.83	8.42	0.34	7.99
9/19/2004	11:30	18.78	8.41	0.34	7.84
9/19/2004	12:00	18.78	8.40	0.34	7.87
9/19/2004	12:30	18.72	8.40	0.34	7.79
9/19/2004	13:00	18.83	8.41	0.34	7.85
9/19/2004	13:30	18.78	8.38	0.34	7.71
9/19/2004	14:00	18.72	8.37	0.34	7.72
9/19/2004	14:30	18.72	8.37	0.34	7.83
9/19/2004	15:00	18.67	8.36	0.34	7.71
9/19/2004	15:30	18.61	8.36	0.34	7.76
9/19/2004	16:00	18.61	8.36	0.34	7.68
9/19/2004	16:30	18.56	8.35	0.34	7.71
9/19/2004	17:00	18.50	8.35	0.34	7.79
9/19/2004	17:30	18.39	8.33	0.34	7.58
9/19/2004	18:00	18.33	8.33	0.34	7.62
9/19/2004	18:30	18.28	8.32	0.34	7.59
9/19/2004	19:00	18.22	8.32	0.34	7.70
9/19/2004	19:30	18.22	8.32	0.34	7.72
9/19/2004	20:00	18.22	8.33	0.34	7.67
9/19/2004	20:30	18.28	8.34	0.34	7.93
9/19/2004	21:00	18.33	8.35	0.34	7.91
9/19/2004	21:30	18.33	8.36	0.34	7.84
9/19/2004	22:00	18.39	8.37	0.34	7.93
9/19/2004	22:30	18.44	8.37	0.34	8.01
9/19/2004	23:00	18.44	8.39	0.34	8.03
9/19/2004	23:30	18.50	8.40	0.34	8.18

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Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/20/2004	0:00	18.56	8.40	0.34	8.19
9/20/2004	0:30	18.56	8.41	0.34	8.18
9/20/2004	1:00	18.56	8.42	0.34	8.27
9/20/2004	1:30	18.56	8.42	0.34	8.26
9/20/2004	2:00	18.56	8.42	0.34	8.25
9/20/2004	2:30	18.50	8.42	0.34	8.24
9/20/2004	3:00	18.50	8.41	0.34	8.18
9/20/2004	3:30	18.50	8.41	0.34	8.22
9/20/2004	4:00	18.50	8.40	0.34	8.16
9/20/2004	4:30	18.50	8.40	0.34	8.15
9/20/2004	5:00	18.50	8.40	0.34	8.18
9/20/2004	5:30	18.50	8.40	0.34	8.19
9/20/2004	6:00	18.44	8.41	0.34	8.24
9/20/2004	6:30	18.44	8.41	0.34	8.20
9/20/2004	7:00	18.44	8.41	0.34	8.12
9/20/2004	7:30	18.44	8.41	0.34	8.19
9/20/2004	8:00	18.44	8.41	0.34	8.20
9/20/2004	8:30	18.44	8.42	0.34	8.37
9/20/2004	9:00	18.56	8.43	0.34	8.33
9/20/2004	9:30	18.61	8.45	0.34	8.49
9/20/2004	10:00	18.72	8.46	0.34	8.51
9/20/2004	10:30	18.78	8.47	0.34	8.58
9/20/2004	11:00	18.83	8.46	0.34	8.45
9/20/2004	11:30	18.89	8.46	0.34	8.49
9/20/2004	12:00	18.94	8.45	0.34	8.54
9/20/2004	12:30	18.94	8.46	0.34	8.52
9/20/2004	13:00	19.00	8.46	0.34	8.26
9/20/2004	13:30	19.00	8.46	0.34	8.24
9/20/2004	14:00	19.00	8.46	0.34	8.47
9/20/2004	14:30	18.94	8.46	0.34	8.55
9/20/2004	15:00	18.94	8.45	0.34	8.47
9/20/2004	15:30	18.83	8.43	0.34	8.36
9/20/2004	16:00	18.78	8.41	0.34	8.37
9/20/2004	16:30	18.72	8.40	0.34	8.28
9/20/2004	17:00	18.61	8.39	0.34	8.34
9/20/2004	17:30	18.56	8.40	0.34	8.22
9/20/2004	18:00	18.50	8.39	0.34	8.26
9/20/2004	18:30	18.44	8.40	0.34	8.27
9/20/2004	19:00	18.44	8.41	0.34	8.33
9/20/2004	19:30	18.39	8.41	0.34	8.33
9/20/2004	20:00	18.33	8.40	0.34	8.30
9/20/2004	20:30	18.28	8.40	0.34	8.38
9/20/2004	21:00	18.22	8.40	0.34	8.34
9/20/2004	21:30	18.22	8.40	0.34	8.31
9/20/2004	22:00	18.22	8.41	0.34	8.42
9/20/2004	22:30	18.22	8.42	0.34	8.43
9/20/2004	23:00	18.28	8.44	0.34	8.40
9/20/2004	23:30	18.33	8.45	0.34	8.40

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/21/2004	0:00	18.33	8.46	0.34	8.49
9/21/2004	0:30	18.33	8.47	0.34	8.54
9/21/2004	1:00	18.39	8.48	0.34	8.50
9/21/2004	1:30	18.39	8.48	0.34	8.53
9/21/2004	2:00	18.39	8.48	0.34	8.53
9/21/2004	2:30	18.33	8.49	0.34	8.41
9/21/2004	3:00	18.33	8.48	0.34	8.52
9/21/2004	3:30	18.33	8.49	0.34	8.47
9/21/2004	4:00	18.33	8.49	0.34	8.46
9/21/2004	4:30	18.28	8.48	0.34	8.39
9/21/2004	5:00	18.28	8.48	0.34	8.46
9/21/2004	5:30	18.28	8.49	0.34	8.46
9/21/2004	6:00	18.22	8.48	0.34	8.49
9/21/2004	6:30	18.22	8.48	0.34	8.42
9/21/2004	7:00	18.22	8.48	0.34	8.43
9/21/2004	7:30	18.17	8.47	0.34	8.55
9/21/2004	8:00	18.22	8.48	0.34	8.46
9/21/2004	8:30	18.28	8.49	0.34	8.50
9/21/2004	9:00	18.33	8.50	0.34	8.47
9/21/2004	9:30	18.44	8.52	0.34	8.65
9/21/2004	10:00	18.61	8.53	0.34	8.65
9/21/2004	10:30	18.72	8.54	0.34	8.59
9/21/2004	11:00	18.83	8.55	0.34	8.64
9/21/2004	11:30	19.00	8.57	0.34	8.76
9/21/2004	12:00	19.11	8.58	0.34	8.73
9/21/2004	12:30	19.17	8.59	0.34	8.78
9/21/2004	13:00	19.22	8.59	0.34	8.68
9/21/2004	13:30	19.28	8.59	0.34	8.66
9/21/2004	14:00	19.28	8.59	0.34	8.66
9/21/2004	14:30	19.33	8.59	0.34	8.82
9/21/2004	15:00	19.28	8.60	0.34	8.80
9/21/2004	15:30	19.28	8.60	0.34	8.70
9/21/2004	16:00	19.22	8.58	0.34	8.68
9/21/2004	16:30	19.17	8.59	0.34	8.67
9/21/2004	17:00	19.11	8.60	0.34	8.66
9/21/2004	17:30	19.06	8.59	0.34	8.66
9/21/2004	18:00	18.94	8.57	0.34	8.59
9/21/2004	18:30	18.89	8.56	0.34	8.55
9/21/2004	19:00	18.89	8.56	0.34	8.55
9/21/2004	19:30	18.83	8.56	0.34	8.56
9/21/2004	20:00	18.83	8.56	0.34	8.54
9/21/2004	20:30	18.78	8.55	0.34	8.52
9/21/2004	21:00	18.78	8.54	0.34	8.47
9/21/2004	21:30	18.72	8.53	0.34	8.44
9/21/2004	22:00	18.67	8.52	0.34	8.44
9/21/2004	22:30	18.61	8.52	0.34	8.44
9/21/2004	23:00	18.61	8.51	0.34	8.43
9/21/2004	23:30	18.56	8.51	0.34	8.45

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Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/22/2004	0:00	18.50	8.51	0.34	8.43
9/22/2004	0:30	18.50	8.49	0.34	8.41
9/22/2004	1:00	18.50	8.48	0.34	8.37
9/22/2004	1:30	18.50	8.47	0.34	8.35
9/22/2004	2:00	18.50	8.48	0.34	8.37
9/22/2004	2:30	18.50	8.48	0.34	8.38
9/22/2004	3:00	18.50	8.50	0.34	8.45
9/22/2004	3:30	18.50	8.50	0.34	8.48
9/22/2004	4:00	18.50	8.51	0.34	8.50
9/22/2004	4:30	18.50	8.52	0.34	8.51
9/22/2004	5:00	18.50	8.52	0.34	8.55
9/22/2004	5:30	18.44	8.52	0.34	8.54
9/22/2004	6:00	18.39	8.51	0.34	8.53
9/22/2004	6:30	18.39	8.50	0.34	8.51
9/22/2004	7:00	18.33	8.49	0.34	8.50
9/22/2004	7:30	18.33	8.49	0.34	8.55
9/22/2004	8:00	18.28	8.48	0.34	8.58
9/22/2004	8:30	18.33	8.48	0.34	8.34
9/22/2004	9:00	18.44	8.51	0.34	8.49
9/22/2004	9:30	18.50	8.53	0.34	8.60
9/22/2004	10:00	18.72	8.56	0.34	8.74
9/22/2004	10:30	18.78	8.55	0.34	8.73
9/22/2004	11:00	18.89	8.57	0.34	8.79
9/22/2004	11:30	19.00	8.56	0.34	8.86
9/22/2004	12:00	19.11	8.57	0.34	8.91
9/22/2004	12:30	19.17	8.57	0.34	8.91
9/22/2004	13:00	19.28	8.58	0.34	8.93
9/22/2004	13:30	19.33	8.59	0.34	8.98
9/22/2004	14:00	19.39	8.60	0.34	8.98
9/22/2004	14:30	19.39	8.59	0.34	9.00
9/22/2004	15:00	19.33	8.60	0.34	8.64
9/22/2004	15:30	19.28	8.58	0.34	8.60
9/22/2004	16:00	19.11	8.56	0.34	8.48
9/22/2004	16:30	19.00	8.56	0.34	8.53
9/22/2004	17:00	18.94	8.54	0.34	8.46
9/22/2004	17:30	18.83	8.52	0.34	8.37
9/22/2004	18:00	18.72	8.51	0.34	8.36
9/22/2004	18:30	18.67	8.49	0.34	8.28
9/22/2004	19:00	18.56	8.48	0.34	8.29
9/22/2004	19:30	18.56	8.48	0.34	8.26
9/22/2004	20:00	18.50	8.48	0.34	8.27
9/22/2004	20:30	18.50	8.47	0.34	8.28
9/22/2004	21:00	18.44	8.47	0.34	8.23
9/22/2004	21:30	18.44	8.47	0.34	8.19
9/22/2004	22:00	18.44	8.47	0.34	8.21
9/22/2004	22:30	18.44	8.47	0.34	8.20
9/22/2004	23:00	18.44	8.47	0.34	8.18
9/22/2004	23:30	18.44	8.47	0.34	8.21

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/23/2004	0:00	18.44	8.47	0.34	8.12
9/23/2004	0:30	18.44	8.47	0.34	8.15
9/23/2004	1:00	18.44	8.47	0.34	8.19
9/23/2004	1:30	18.44	8.47	0.34	8.20
9/23/2004	2:00	18.44	8.47	0.34	8.22
9/23/2004	2:30	18.44	8.49	0.34	8.21
9/23/2004	3:00	18.44	8.49	0.34	8.29
9/23/2004	3:30	18.44	8.49	0.34	8.24
9/23/2004	4:00	18.44	8.49	0.34	8.25
9/23/2004	4:30	18.39	8.49	0.34	8.22
9/23/2004	5:00	18.39	8.49	0.34	8.29
9/23/2004	5:30	18.39	8.49	0.34	8.27
9/23/2004	6:00	18.39	8.49	0.34	8.27
9/23/2004	6:30	18.33	8.49	0.34	8.28
9/23/2004	7:00	18.33	8.49	0.34	8.32
9/23/2004	7:30	18.33	8.49	0.34	8.32
9/23/2004	8:00	18.33	8.49	0.34	8.31
9/23/2004	8:30	18.39	8.50	0.34	8.42
9/23/2004	9:00	18.44	8.52	0.34	8.43
9/23/2004	9:30	18.61	8.53	0.34	8.52
9/23/2004	10:00	18.78	8.55	0.34	8.63
9/23/2004	10:30	18.83	8.55	0.34	8.58
9/23/2004	11:00	19.00	8.56	0.34	8.64
9/23/2004	11:30	19.17	8.56	0.34	8.57
9/23/2004	12:00	19.22	8.55	0.34	8.56
9/23/2004	12:30	19.17	8.55	0.34	8.54
9/23/2004	13:00	19.28	8.55	0.34	8.53
9/23/2004	13:30	19.33	8.54	0.34	8.51
9/23/2004	14:00	19.33	8.53	0.34	8.44
9/23/2004	14:30	19.33	8.52	0.34	8.45
9/23/2004	15:00	19.28	8.50	0.34	8.33
9/23/2004	15:30	19.22	8.47	0.34	8.25
9/23/2004	16:00	19.11	8.45	0.34	8.21
9/23/2004	16:30	18.94	8.44	0.34	8.12
9/23/2004	17:00	18.83	8.40	0.34	8.03
9/23/2004	17:30	18.67	8.38	0.34	7.87
9/23/2004	18:00	18.56	8.34	0.34	7.85
9/23/2004	18:30	18.39	8.31	0.34	7.76
9/23/2004	19:00	18.22	8.28	0.34	7.68
9/23/2004	19:30	18.17	8.27	0.34	7.60
9/23/2004	20:00	18.06	8.26	0.34	7.60
9/23/2004	20:30	18.06	8.26	0.34	7.64
9/23/2004	21:00	18.11	8.27	0.34	7.63
9/23/2004	21:30	18.11	8.29	0.34	7.64
9/23/2004	22:00	18.22	8.31	0.34	7.72
9/23/2004	22:30	18.28	8.33	0.34	7.81
9/23/2004	23:00	18.39	8.38	0.34	7.97
9/23/2004	23:30	18.50	8.42	0.34	8.05

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/24/2004	0:00	18.61	8.45	0.34	8.08
9/24/2004	0:30	18.67	8.46	0.34	8.00
9/24/2004	1:00	18.72	8.48	0.34	8.02
9/24/2004	1:30	18.78	8.51	0.34	8.04
9/24/2004	2:00	18.89	8.54	0.34	8.13
9/24/2004	2:30	18.94	8.55	0.34	8.11
9/24/2004	3:00	18.94	8.57	0.34	8.15
9/24/2004	3:30	18.94	8.58	0.34	8.26
9/24/2004	4:00	19.00	8.58	0.34	8.17
9/24/2004	4:30	18.94	8.58	0.34	8.23
9/24/2004	5:00	18.89	8.58	0.34	8.23
9/24/2004	5:30	18.83	8.56	0.34	8.17
9/24/2004	6:00	18.78	8.55	0.34	8.19
9/24/2004	6:30	18.72	8.53	0.34	8.22
9/24/2004	7:00	18.67	8.52	0.34	8.17
9/24/2004	7:30	18.67	8.52	0.34	8.19
9/24/2004	8:00	18.67	8.52	0.34	8.23
9/24/2004	8:30	18.72	8.53	0.34	8.24
9/24/2004	9:00	18.78	8.55	0.34	8.29
9/24/2004	9:30	18.83	8.57	0.34	8.45
9/24/2004	10:00	18.94	8.58	0.34	8.53
9/24/2004	10:30	19.06	8.60	0.34	8.50
9/24/2004	11:00	19.22	8.62	0.34	8.47
9/24/2004	11:30	19.17	8.63	0.34	8.51
9/24/2004	12:00	19.22	8.66	0.34	8.57
9/24/2004	12:30	19.28	8.69	0.34	8.66
9/24/2004	13:00	19.33	8.72	0.34	8.70
9/24/2004	13:30	19.39	8.75	0.34	8.87
9/24/2004	14:00	19.50	8.77	0.34	8.86
9/24/2004	14:30	19.56	8.79	0.34	8.89
9/24/2004	15:00	19.56	8.80	0.34	8.87
9/24/2004	15:30	19.50	8.79	0.34	8.82
9/24/2004	16:00	19.44	8.78	0.34	8.73
9/24/2004	16:30	19.39	8.76	0.34	8.74
9/24/2004	17:00	19.33	8.75	0.34	8.81
9/24/2004	17:30	19.28	8.74	0.34	8.76
9/24/2004	18:00	19.22	8.73	0.34	8.70
9/24/2004	18:30	19.17	8.72	0.34	8.62
9/24/2004	19:00	19.11	8.70	0.34	8.69
9/24/2004	19:30	19.11	8.69	0.34	8.67
9/24/2004	20:00	19.06	8.68	0.34	8.63
9/24/2004	20:30	19.06	8.67	0.34	8.52
9/24/2004	21:00	19.00	8.66	0.34	8.61
9/24/2004	21:30	19.00	8.64	0.34	8.59
9/24/2004	22:00	18.94	8.63	0.34	8.59
9/24/2004	22:30	18.94	8.62	0.34	8.59
9/24/2004	23:00	18.89	8.61	0.34	8.50
9/24/2004	23:30	18.89	8.60	0.34	8.61

2004 Water Quality Study
Tailwater Tabular Data for Month of September 2004
Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689

Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/25/2004	0:00	18.83	8.58	0.34	8.52
9/25/2004	0:30	18.78	8.57	0.34	8.58
9/25/2004	1:00	18.78	8.56	0.34	8.58
9/25/2004	1:30	18.72	8.56	0.34	8.55
9/25/2004	2:00	18.72	8.55	0.34	8.47
9/25/2004	2:30	18.67	8.54	0.34	8.58
9/25/2004	3:00	18.67	8.54	0.34	8.57
9/25/2004	3:30	18.67	8.53	0.34	8.58
9/25/2004	4:00	18.61	8.53	0.34	8.56
9/25/2004	4:30	18.61	8.53	0.34	8.59
9/25/2004	5:00	18.61	8.53	0.34	8.57
9/25/2004	5:30	18.56	8.53	0.34	8.55
9/25/2004	6:00	18.56	8.53	0.34	8.57
9/25/2004	6:30	18.50	8.53	0.34	8.56
9/25/2004	7:00	18.50	8.53	0.34	8.65
9/25/2004	7:30	18.44	8.54	0.34	8.71
9/25/2004	8:00	18.44	8.54	0.34	8.67
9/25/2004	8:30	18.44	8.55	0.34	8.72
9/25/2004	9:00	18.56	8.57	0.34	8.70
9/25/2004	9:30	18.61	8.59	0.34	8.72
9/25/2004	10:00	18.67	8.60	0.34	8.76
9/25/2004	10:30	18.78	8.61	0.34	8.79
9/25/2004	11:00	18.83	8.61	0.34	8.75
9/25/2004	11:30	18.89	8.61	0.34	8.74
9/25/2004	12:00	18.94	8.61	0.34	8.90
9/25/2004	12:30	19.06	8.61	0.34	8.89
9/25/2004	13:00	19.11	8.62	0.34	8.81
9/25/2004	13:30	19.11	8.62	0.34	8.76
9/25/2004	14:00	19.17	8.61	0.34	8.75
9/25/2004	14:30	19.17	8.61	0.34	8.72
9/25/2004	15:00	19.11	8.60	0.34	8.70
9/25/2004	15:30	19.06	8.59	0.34	8.68
9/25/2004	16:00	18.94	8.58	0.34	8.67
9/25/2004	16:30	18.94	8.57	0.34	8.61
9/25/2004	17:00	18.83	8.55	0.34	8.62
9/25/2004	17:30	18.78	8.55	0.34	8.55
9/25/2004	18:00	18.72	8.54	0.34	8.60
9/25/2004	18:30	18.67	8.53	0.34	8.54
9/25/2004	19:00	18.61	8.52	0.35	8.54
9/25/2004	19:30	18.56	8.51	0.35	8.48
9/25/2004	20:00	18.50	8.50	0.35	8.56
9/25/2004	20:30	18.44	8.49	0.35	8.45
9/25/2004	21:00	18.33	8.47	0.35	8.51
9/25/2004	21:30	18.28	8.47	0.35	8.43
9/25/2004	22:00	18.22	8.46	0.35	8.53
9/25/2004	22:30	18.17	8.45	0.35	8.38
9/25/2004	23:00	18.11	8.44	0.35	8.46
9/25/2004	23:30	18.06	8.44	0.35	8.50

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/26/2004	0:00	18.06	8.44	0.35	8.42
9/26/2004	0:30	18.00	8.43	0.35	8.45
9/26/2004	1:00	17.94	8.43	0.35	8.37
9/26/2004	1:30	17.94	8.43	0.35	8.40
9/26/2004	2:00	17.89	8.42	0.35	8.38
9/26/2004	2:30	17.89	8.42	0.35	8.35
9/26/2004	3:00	17.83	8.42	0.35	8.35
9/26/2004	3:30	17.83	8.42	0.35	8.40
9/26/2004	4:00	17.83	8.42	0.35	8.38
9/26/2004	4:30	17.83	8.42	0.35	8.38
9/26/2004	5:00	17.83	8.43	0.35	8.35
9/26/2004	5:30	17.78	8.45	0.35	8.38
9/26/2004	6:00	17.78	8.45	0.35	8.46
9/26/2004	6:30	17.78	8.45	0.35	8.44
9/26/2004	7:00	17.78	8.46	0.35	8.46
9/26/2004	7:30	17.72	8.47	0.35	8.53
9/26/2004	8:00	17.72	8.47	0.35	8.59
9/26/2004	8:30	17.78	8.48	0.34	8.60
9/26/2004	9:00	17.89	8.50	0.34	8.69
9/26/2004	9:30	18.06	8.52	0.35	8.62
9/26/2004	10:00	18.17	8.53	0.35	8.65
9/26/2004	10:30	18.33	8.54	0.35	8.74
9/26/2004	11:00	18.44	8.55	0.35	8.77
9/26/2004	11:30	18.56	8.55	0.35	8.72
9/26/2004	12:00	18.61	8.55	0.35	8.54
9/26/2004	12:30	18.72	8.56	0.35	8.76
9/26/2004	13:00	18.78	8.56	0.35	8.73
9/26/2004	13:30	18.83	8.56	0.35	8.66
9/26/2004	14:00	18.89	8.57	0.35	8.70
9/26/2004	14:30	18.89	8.57	0.35	8.71
9/26/2004	15:00	18.89	8.56	0.35	8.73
9/26/2004	15:30	18.78	8.55	0.35	8.54
9/26/2004	16:00	18.72	8.53	0.35	8.64
9/26/2004	16:30	18.61	8.52	0.35	8.56
9/26/2004	17:00	18.56	8.51	0.35	8.46
9/26/2004	17:30	18.50	8.51	0.35	8.45
9/26/2004	18:00	18.44	8.51	0.35	8.47
9/26/2004	18:30	18.39	8.50	0.35	8.51
9/26/2004	19:00	18.33	8.49	0.35	8.40
9/26/2004	19:30	18.22	8.49	0.35	8.45
9/26/2004	20:00	18.17	8.49	0.35	8.44
9/26/2004	20:30	18.17	8.48	0.35	8.48
9/26/2004	21:00	18.11	8.48	0.35	8.39
9/26/2004	21:30	18.06	8.48	0.35	8.38
9/26/2004	22:00	18.00	8.48	0.35	8.40
9/26/2004	22:30	17.94	8.47	0.35	8.40
9/26/2004	23:00	17.89	8.47	0.35	8.42
9/26/2004	23:30	17.83	8.47	0.35	8.41

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/27/2004	0:00	17.78	8.45	0.35	8.36
9/27/2004	0:30	17.72	8.45	0.35	8.37
9/27/2004	1:00	17.67	8.44	0.35	8.39
9/27/2004	1:30	17.67	8.45	0.35	8.29
9/27/2004	2:00	17.61	8.44	0.35	8.35
9/27/2004	2:30	17.61	8.44	0.35	8.42
9/27/2004	3:00	17.56	8.43	0.35	8.28
9/27/2004	3:30	17.50	8.42	0.35	8.41
9/27/2004	4:00	17.50	8.43	0.35	8.37
9/27/2004	4:30	17.44	8.42	0.35	8.33
9/27/2004	5:00	17.44	8.42	0.35	8.33
9/27/2004	5:30	17.39	8.42	0.35	8.36
9/27/2004	6:00	17.39	8.42	0.35	8.36
9/27/2004	6:30	17.39	8.41	0.35	8.38
9/27/2004	7:00	17.33	8.42	0.35	8.31
9/27/2004	7:30	17.33	8.43	0.35	8.45
9/27/2004	8:00	17.39	8.43	0.35	8.47
9/27/2004	8:30	17.39	8.44	0.35	8.54
9/27/2004	9:00	17.50	8.47	0.35	8.62
9/27/2004	9:30	17.67	8.49	0.35	8.72
9/27/2004	10:00	17.78	8.50	0.35	8.56
9/27/2004	10:30	17.89	8.52	0.35	8.58
9/27/2004	11:00	18.00	8.53	0.35	8.49
9/27/2004	11:30	18.11	8.54	0.35	8.57
9/27/2004	12:00	18.17	8.54	0.35	8.63
9/27/2004	12:30	18.28	8.55	0.35	8.60
9/27/2004	13:00	18.33	8.56	0.35	8.65
9/27/2004	13:30	19.78	8.33	0.35	8.70
9/27/2004	14:00	18.50	8.58	0.35	8.68
9/27/2004	14:30	18.50	8.58	0.35	8.67
9/27/2004	15:00	18.50	8.59	0.35	8.67
9/27/2004	15:30	18.44	8.59	0.35	8.65
9/27/2004	16:00	18.44	8.58	0.35	8.63
9/27/2004	16:30	18.44	8.57	0.35	8.57
9/27/2004	17:00	18.44	8.57	0.35	8.54
9/27/2004	17:30	18.39	8.56	0.35	8.37
9/27/2004	18:00	18.33	8.57	0.34	8.29
9/27/2004	18:30	18.28	8.55	0.35	8.34
9/27/2004	19:00	18.22	8.53	0.35	8.17
9/27/2004	19:30	18.17	8.52	0.35	8.26
9/27/2004	20:00	18.06	8.51	0.35	8.29
9/27/2004	20:30	18.00	8.51	0.35	8.30
9/27/2004	21:00	18.00	8.51	0.35	8.30
9/27/2004	21:30	18.00	8.53	0.35	8.31
9/27/2004	22:00	18.00	8.53	0.35	8.31
9/27/2004	22:30	18.00	8.53	0.35	8.31
9/27/2004	23:00	17.94	8.53	0.35	8.27
9/27/2004	23:30	17.89	8.51	0.35	8.24

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/28/2004	0:00	17.72	8.49	0.35	8.20
9/28/2004	0:30	17.61	8.47	0.35	8.28
9/28/2004	1:00	17.50	8.46	0.35	8.29
9/28/2004	1:30	17.44	8.46	0.35	8.31
9/28/2004	2:00	17.39	8.46	0.35	8.31
9/28/2004	2:30	17.39	8.47	0.35	8.31
9/28/2004	3:00	17.33	8.47	0.35	8.32
9/28/2004	3:30	17.28	8.48	0.35	8.36
9/28/2004	4:00	17.22	8.47	0.35	8.34
9/28/2004	4:30	17.17	8.48	0.35	8.37
9/28/2004	5:00	17.11	8.48	0.35	8.37
9/28/2004	5:30	17.06	8.48	0.35	8.38
9/28/2004	6:00	17.00	8.48	0.35	8.39
9/28/2004	6:30	17.00	8.48	0.35	8.40
9/28/2004	7:00	16.94	8.48	0.35	8.40
9/28/2004	7:30	16.89	8.48	0.35	8.43
9/28/2004	8:00	16.83	8.49	0.35	8.47
9/28/2004	8:30	16.83	8.49	0.35	8.51
9/28/2004	9:00	16.94	8.52	0.35	8.62
9/28/2004	9:30	17.06	8.54	0.35	8.68
9/28/2004	10:00	17.11	8.55	0.35	8.73
9/28/2004	10:30	17.22	8.57	0.35	8.79
9/28/2004	11:00	17.28	8.58	0.35	8.83
9/28/2004	11:30	17.39	8.59	0.35	8.52
9/28/2004	12:00	17.39	8.59	0.35	8.62
9/28/2004	12:30	17.44	8.60	0.35	8.63
9/28/2004	13:00	17.56	8.61	0.35	8.65
9/28/2004	13:30	17.61	8.61	0.35	8.64
9/28/2004	14:00	17.72	8.61	0.35	8.58
9/28/2004	14:30	17.72	8.62	0.35	8.59
9/28/2004	15:00	17.72	8.61	0.35	8.56
9/28/2004	15:30	17.67	8.61	0.35	8.42
9/28/2004	16:00	17.61	8.59	0.35	8.49
9/28/2004	16:30	17.56	8.58	0.35	8.51
9/28/2004	17:00	17.50	8.57	0.35	8.42
9/28/2004	17:30	17.39	8.55	0.35	8.36
9/28/2004	18:00	17.33	8.52	0.35	8.22
9/28/2004	18:30	17.22	8.50	0.35	8.09
9/28/2004	19:00	17.11	8.48	0.35	8.11
9/28/2004	19:30	17.00	8.46	0.35	8.02
9/28/2004	20:00	16.94	8.45	0.35	7.99
9/28/2004	20:30	16.83	8.44	0.35	7.99
9/28/2004	21:00	16.78	8.43	0.35	7.94
9/28/2004	21:30	16.67	8.43	0.35	7.95
9/28/2004	22:00	16.56	8.42	0.35	7.87
9/28/2004	22:30	16.50	8.42	0.35	7.91
9/28/2004	23:00	16.44	8.42	0.35	7.89
9/28/2004	23:30	16.39	8.41	0.35	7.84

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/29/2004	0:00	16.33	8.42	0.35	7.88
9/29/2004	0:30	16.33	8.41	0.35	7.90
9/29/2004	1:00	16.28	8.41	0.35	7.85
9/29/2004	1:30	16.28	8.42	0.35	7.86
9/29/2004	2:00	16.22	8.42	0.35	7.85
9/29/2004	2:30	16.17	8.41	0.35	7.78
9/29/2004	3:00	16.17	8.42	0.35	7.80
9/29/2004	3:30	16.11	8.42	0.35	7.76
9/29/2004	4:00	16.11	8.42	0.35	7.77
9/29/2004	4:30	16.06	8.42	0.35	7.72
9/29/2004	5:00	16.06	8.42	0.35	7.79
9/29/2004	5:30	16.00	8.42	0.35	7.69
9/29/2004	6:00	16.00	8.43	0.35	7.69
9/29/2004	6:30	15.94	8.42	0.35	7.70
9/29/2004	7:00	15.94	8.43	0.35	7.73
9/29/2004	7:30	15.89	8.43	0.35	7.68
9/29/2004	8:00	15.89	8.44	0.35	7.67
9/29/2004	8:30	15.94	8.45	0.35	7.74
9/29/2004	9:00	16.06	8.47	0.35	7.83
9/29/2004	9:30	16.22	8.49	0.35	7.93
9/29/2004	10:00	16.39	8.50	0.35	7.92
9/29/2004	10:30	16.50	8.52	0.35	7.98
9/29/2004	11:00	16.67	8.53	0.35	8.03
9/29/2004	11:30	16.78	8.54	0.35	7.93
9/29/2004	12:00	16.89	8.54	0.35	7.90
9/29/2004	12:30	17.06	8.56	0.35	8.01
9/29/2004	13:00	17.11	8.56	0.35	7.81
9/29/2004	13:30	17.17	8.56	0.35	7.81
9/29/2004	14:00	17.22	8.56	0.35	7.84
9/29/2004	14:30	17.22	8.56	0.35	7.84
9/29/2004	15:00	17.17	8.55	0.35	7.74
9/29/2004	15:30	17.11	8.54	0.35	7.77
9/29/2004	16:00	17.06	8.53	0.35	7.63
9/29/2004	16:30	16.94	8.52	0.35	7.66
9/29/2004	17:00	16.83	8.51	0.35	7.53
9/29/2004	17:30	16.72	8.49	0.35	7.50
9/29/2004	18:00	16.61	8.48	0.35	7.51
9/29/2004	18:30	16.50	8.46	0.35	7.45
9/29/2004	19:00	16.39	8.45	0.35	7.47
9/29/2004	19:30	16.28	8.44	0.35	7.54
9/29/2004	20:00	16.22	8.44	0.35	7.37
9/29/2004	20:30	16.11	8.43	0.35	7.36
9/29/2004	21:00	16.00	8.43	0.35	7.49
9/29/2004	21:30	15.89	8.43	0.35	7.42
9/29/2004	22:00	15.83	8.42	0.35	7.41
9/29/2004	22:30	15.72	8.42	0.35	7.33
9/29/2004	23:00	15.67	8.42	0.35	7.41
9/29/2004	23:30	15.61	8.43	0.35	7.29

2004 Water Quality Study Tailwater Tabular Data for Month of September 2004 Oconto Falls (Lower) Hydroelectric Project - FERC Project # 2689					
Date	Time	Temp (° C)	pH (units)	Sp. Cond. mS/cm	DO (mg/l)
9/30/2004	0:00	15.56	8.44	0.35	7.49
9/30/2004	0:30	15.50	8.44	0.35	7.45
9/30/2004	1:00	15.44	8.45	0.35	7.51
9/30/2004	1:30	15.44	8.45	0.35	7.57
9/30/2004	2:00	15.39	8.45	0.35	7.49
9/30/2004	2:30	15.33	8.45	0.35	7.56
9/30/2004	3:00	15.33	8.46	0.35	7.60
9/30/2004	3:30	15.33	8.46	0.35	7.51
9/30/2004	4:00	15.28	8.46	0.35	7.48
9/30/2004	4:30	15.28	8.46	0.35	7.48
9/30/2004	5:00	15.28	8.46	0.35	7.50
9/30/2004	5:30	15.22	8.46	0.35	7.50
9/30/2004	6:00	15.17	8.46	0.35	7.43
9/30/2004	6:30	15.17	8.46	0.35	7.45
9/30/2004	7:00	15.17	8.47	0.35	7.47
9/30/2004	7:30	15.17	8.48	0.35	7.55
9/30/2004	8:00	15.17	8.49	0.35	7.51
9/30/2004	8:30	15.22	8.49	0.35	7.64
9/30/2004	9:00	15.33	8.52	0.35	7.70
9/30/2004	9:30	15.44	8.53	0.35	7.54
9/30/2004	10:00	15.56	8.54	0.35	7.61
9/30/2004	10:30	15.72	8.56	0.35	7.66
9/30/2004	11:00	15.89	8.57	0.35	7.86
9/30/2004	11:30	16.00	8.58	0.35	7.78
9/30/2004	12:00	16.11	8.58	0.35	7.72
9/30/2004	12:30	16.17	8.59	0.35	7.69
9/30/2004	13:00	16.22	8.58	0.35	7.67
9/30/2004	13:30	16.28	8.58	0.35	7.59
9/30/2004	14:00	16.28	8.58	0.35	7.54
9/30/2004	14:30	16.22	8.57	0.35	7.38
9/30/2004	15:00	16.22	8.56	0.35	7.52
9/30/2004	15:30	16.11	8.56	0.35	7.48
9/30/2004	16:00	16.06	8.55	0.35	7.48
9/30/2004	16:30	15.94	8.55	0.35	7.54
9/30/2004	17:00	15.89	8.54	0.35	7.53
9/30/2004	17:30	15.83	8.53	0.35	7.54
9/30/2004	18:00	15.72	8.51	0.35	7.53
9/30/2004	18:30	15.61	8.50	0.35	7.43
9/30/2004	19:00	15.56	8.48	0.35	7.37
9/30/2004	19:30	15.50	8.48	0.35	7.38
9/30/2004	20:00	15.44	8.47	0.35	7.36
9/30/2004	20:30	15.39	8.47	0.35	7.40
9/30/2004	21:00	15.39	8.47	0.35	7.32
9/30/2004	21:30	15.33	8.48	0.35	7.44
9/30/2004	22:00	15.28	8.48	0.35	7.35
9/30/2004	22:30	15.22	8.48	0.35	7.48
9/30/2004	23:00	15.17	8.48	0.35	7.42
9/30/2004	23:30	15.11	8.49	0.35	7.45
10/1/1999	0:00	15.06	8.49	0.35	7.44

APPENDIX D

Agency Correspondence



North American Hydro Holdings, Inc. — Plant Operations:

116 State Street, P.O. Box 167, Neeshkoro, WI 54960 USA

Tel 920-293-4628 Fax 920-293-8087 Email nah@nahydro.com Web www.nahydro.com

Engineering & Manufacturing:

1323 B Everest Avenue, Schofield, WI 54476 USA

Tel 715-359-0209 Fax 715-359-1049 Email schofield@nahydro.com Web www.nahydro.com

January 7, 2005

Mr. Jim Reyburn
Water Quality Biologist
Wisconsin Department of Natural Resources
P.O. Box 10448
Green Bay, Wisconsin 54307

RE: 2004 Water Quality Monitoring Data

Oconto Falls (Upper) Hydroelectric Project (FERC #2523)

Oconto Falls (Lower) Hydroelectric Project (FERC #2689)

Mr. Reyburn,

Enclosed are the draft copies of the 2004 Water Quality Monitoring data compiled from impoundment and tailwater sampling performed during July 1 through September 30 of 2004 for the two Projects listed above. This is the first-session data collected for Oconto Falls (Upper) Hydroelectric Project (FERC #2523) and second-session data collected for Oconto Falls (Lower) Hydroelectric Project (FERC #2689) under their respective FERC approved Water Quality Monitoring Plans.

Per Plan design, sample collections were coordinated between these projects to establish a long-term database for water quality analysis and trending of the Oconto River at these established sampling locations.

I would appreciate it if you would look through the data and provide any feedback within the next 30 days. If you have any questions, please feel free to contact me at 920-293-4628 ext #15, via mail, or via e-mail @ loeffler@vbe.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Steve R. Loeffler", with a long, sweeping horizontal line extending to the right.

Steve Loeffler
Environmental Studies Manager
North American Hydro Holdings, Inc.

Enclosures: As Indicated
Cc: Mr. Larry Thompson — USFWS



North American Hydro Holdings, Inc. — Plant Operations:
116 State Street, P.O. Box 167, Neeshkoro, WI 54980 USA
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Tel 715-359-0209 Fax 715-359-1049 Email schofield@nahydro.com Web www.nahydro.com

January 7, 2005

Mr. Larry Thompson
Staff Biologist
U.S. Fish and Wildlife Service
2661 Scott Tower Drive
New Franken, Wisconsin 54229

RE: 2004 Water Quality Monitoring Data
Oconto Falls (Upper) Hydroelectric Project (FERC #2523)
Oconto Falls (Lower) Hydroelectric Project (FERC #2689)

Mr. Thompson,

Enclosed are the draft copies of the 2004 Water Quality Monitoring data compiled from impoundment and tailwater sampling performed during July 1 through September 30 of 2004 for the two Projects listed above. This is the first-session data collected for Oconto Falls (Upper) Hydroelectric Project (FERC #2523) and second-session data collected for Oconto Falls (Lower) Hydroelectric Project (FERC #2689) under their respective FERC approved Water Quality Monitoring Plans.

Per Plan design, sample collections were coordinated between these projects to establish a long-term database for water quality analysis and trending of the Oconto River at these established sampling locations.

I would appreciate it if you would look through the data and provide any feedback within the next 30 days. If you have any questions, please feel free to contact me at 920-293-4628 ext #15, via mail, or via e-mail @ loeffler@vbe.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Steve R. Loeffler". The signature is fluid and cursive, with a long horizontal line extending to the right.

Steve Loeffler
Environmental Studies Manager
North American Hydro Holdings, Inc.

Enclosures: As indicated
Cc: Mr. Jim Reyburn - WDNR

Subject: 2004 Oconto Falls Water Quality Draft Report?

From: Steve Loeffler <loeffler@vbe.com>

Date: Wed, 09 Mar 2005 15:51:08 -0600

To: reybuja@dnr.state.wi.us

Re: 2004 Water Quality Monitoring Data

Oconto Falls (Upper) Hydroelectric Project - FERC #2523

Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Jim,

I need to wrap up these reports and submit them to the FERC (draft submitted for your review January 7, 2005). I would appreciate it if you could e-mail any comments to me by the end of this week.

Thanks,

Steve Loeffler
Environmental Studies Manager
North American Hydro Holdings, Inc.

Subject: Attn: Larry Thompson
From: Steve Loeffler <loeffler@vbe.com>
Date: Wed, 09 Mar 2005 16:04:17 -0600
To: GreenBayFisheries@fws.gov

Re: 2004 Water Quality Monitoring Data
Oconto Falls (Upper) Hydroelectric Project - FERC #2523
Oconto Falls (Lower) Hydroelectric Project - FERC #2689

Larry,

I need to wrap up these reports and submit them to the FERC (draft submitted for your review January 7, 2005). I would appreciate it if you could e-mail any comments to me by the end of this week.

Thanks,

Steve Loeffler
Environmental Studies Manager
North American Hydro Holdings, Inc.

Subject: Re: 2004 Oconto Falls Water Quality Draft Report?
From: Steve Loeffler <loeffler@vbe.com>
Date: Thu, 10 Mar 2005 11:17:27 -0600
To: "Reyburn, James R." <James.Reyburn@dnr.state.wi.us>

Thank you, Jim, for the quick response.

I have passed along your request to our Oconto Falls dam operators and our regional operations manager to monitor for zebra mussels. I asked them to monthly or bi-monthly check underwater equipment and submerged structures for any evidence of the mussels, as well as keep an ear tuned for any shoreline property owners who may have seen mussels on their boat transoms, motor lower units, pier pilings or washed up on their shorelines. If the operators identify anything immediately below, between, or above the dams, they will let me know and I will immediately pass on the information to you. If you have any other suggestions, let me know and I will pass it along.

Thanks again,

Steve

Reyburn, James R. wrote:

Steve - I looked at the draft reports today and they look good. The continuous monitoring data from the lower and the upper tailwater sampling are very consistent. The only recommendation I have is to include a map in each report showing the sample locations above and below both dams on the same map. As an aside, I think you spoke to Charmaine Robaidek from DNR about zebra mussels. The Oconto River at the Oconto Falls pond are on the watch list for zebra mussels. Veligers have been found in the Oconto Falls Pond but no adults have been found. Could you and the dam operators keep a look out for adults as a part of routine operation and notify me if any are found? Thanks
James Reyburn -Department of Natural Resources
Water Quality Biologist - Lower Fox Basin
P.O. Box 10448 Green Bay, WI. 54307-0448
(920) 448-5135
email james.reyburn@dnr.state.wi.us



North American Hydro Holdings, Inc. — Plant Operations:

116 State Street, P.O. Box 167, Neeshkoro, WI 54980 USA

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April 22, 2005

Ms. Peggy Harding - Regional Director
Federal Energy Regulatory Commission -CRO
230 South Dearborn St.
Room 3130
Chicago, IL 60604

RE: 2004 Water Quality Monitoring Data Final Report
Oconto Falls (Upper) Hydroelectric Project (FERC #2523)
Oconto Falls (Lower) Hydroelectric Project (FERC #2689)

Ms. Harding,

Enclosed are the Final Report copies of the 2004 Water Quality Monitoring data compiled from impoundment and tailwater sampling performed during July 1 through September 30 of 2004 for the two Projects listed above.

Draft copies of these reports were sent to Mr. Larry Thompson - Staff Biologist, U.S. Fish and Wildlife Service and Mr. Jim Reyburn - Water Quality Biologist, Wisconsin Department of Natural Resources on January 7, 2005 for solicited review per the approved Article 405 Water Quality Monitoring Plan for Oconto Falls (Upper) Hydroelectric Project (FERC #2523) and approved Article 404 Water Quality Monitoring Plan for Oconto Falls (Lower) Hydroelectric Project (FERC #2689).

I have incorporated Mr. Reyburn's single comment request by adding into each report an aerial photo location map indicating the sampling locations of both studies.

I did not receive any comments from Mr. Thompson for either of these report's draft copies.

If you have any questions regarding these reports, please feel free to contact me at 920-293-4628 ext #15, via mail, or via e-mail @ loeffler@vbe.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven R. Loeffler", with a long, sweeping underline.

Steven R. Loeffler
Environmental Studies Manager
North American Hydro Holdings, Inc.

Enclosures: As Indicated

Cc: Mr. Larry Thompson - USFWS
Mr. Jim Reyburn - WDNR



North American Hydro Holdings, Inc. — Plant Operations:

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April 22, 2005

Mr. Jim Reyburn
Water Quality Biologist
Wisconsin Department of Natural Resources
P.O. Box 10448
Green Bay, Wisconsin 54307

RE: 2004 Water Quality Monitoring Data Final Report
Oconto Falls (Upper) Hydroelectric Project (FERC #2523)
Oconto Falls (Lower) Hydroelectric Project (FERC #2689)

Mr. Reyburn,

Enclosed are the Final Report copies of the 2004 Water Quality Monitoring data compiled from impoundment and tailwater sampling performed during July 1 through September 30 of 2004 for the two Projects listed above.

I thank you for your time in reviewing and commenting on the draft copies of these reports sent to you on January 7, 2005. I have incorporated your single comment request by adding into each report an aerial photo location map indicating the sampling locations of both studies.

I did not receive any comments from Mr. Larry Thompson - Staff Biologist, U.S. Fish and Wildlife Service in New Franken, Wisconsin for either of these report's draft copies.

Once again, thank you for your review and comments.

Sincerely,

A handwritten signature in black ink, appearing to read "Steven R. Loeffler". The signature is fluid and cursive, with a long, sweeping underline.

Steven R. Loeffler
Environmental Studies Manager
North American Hydro Holdings, Inc.

Enclosures: As Indicated

Cc: Mr. Larry Thompson - USFWS
FERC - CRO



North American Hydro Holdings, Inc. — Plant Operations:

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April 22, 2005

Mr. Larry Thompson
Staff Biologist
U.S. Fish and Wildlife Service
2661 Scott Tower Drive
New Franken, Wisconsin 54229

RE: 2004 Water Quality Monitoring Data Final Report
Oconto Falls (Upper) Hydroelectric Project (FERC #2523)
Oconto Falls (Lower) Hydroelectric Project (FERC #2689)

Mr. Thompson,

Enclosed are the draft copies of the 2004 Water Quality Monitoring data compiled from impoundment and tailwater sampling performed during July 1 through September 30 of 2004 for the two Projects listed above.

As I did not receive any solicited comments from you since the January 7, 2005 submission of the draft reports, I must assume that you have no comments.

I have incorporated Mr. Jim Reyburn's (Water Quality Biologist, Wisconsin Department of Natural Resources) single comment request by adding into each report an aerial photo location map indicating the sampling locations of both studies.

Thank you for the opportunity to solicit your comments for these reports.

Sincerely,

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Steven R. Loeffler
Environmental Studies Manager
North American Hydro Holdings, Inc.

Enclosures: As Indicated

Cc: Mr. Jim Reyburn - WDNR
FERC - CRO