



DAIRYLAND POWER
COOPERATIVE

January 29, 2008

Mr. Jeff Scheirer, Fisheries Biologist
Wisconsin Department of Natural Resources
875 S. 4th Avenue
Park Falls, WI 54552-1130

Dear Mr. Scheirer:

Please find the enclosed water quality data, which was collected during the 2007 calendar year, for the Flambeau Hydroelectric Project (FERC Project No. 1960-002). The data was collected from a fixed-point location in the lower portion of the Dairyland Reservoir and is being submitted to the WDNR in order to comply with Article 401(A) of the Flambeau Hydroelectric Project License.

If you have questions regarding the data, feel free to contact me at (608) 787-1492. I will be happy to discuss any concerns that you may have.

Sincerely,

DAIRYLAND POWER COOPERATIVE




Bradley P. Foss
Environmental Biologist II

BPF:krm

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Enclosure(s)

*Results forwarded
to C. Roesler
2/1/2008*

A Touchstone Energy® Cooperative 

Date (dd-mmm-yy)	Depth (ft.)	Temp. (°C)	pH (units)	Specific Conductance (µSiemens/cm)	TDS (g/L)	DO (% saturation)	DO (mg/L)	Turbidity (NTU)	True Color (pcu)	Total Phosphorous (mg/L)	Chlorophyll a (µg/L)	Secchi Disc Depth (cm)	Comments
16-Apr-07	0.1	6.1	6.95	83.4	0.0534	106.6	10.92	3.7				140	True Color, Total Phosphorous, and Chlorophyll a samples collected at a depth of 1 m. on 4/17/07
16-Apr-07	5	4.79	7.37	83.5	0.0534	103.4	10.94	2.2	100	0.12	5.5		
16-Apr-07	6.9	4.57	7.36	82.4	0.0527	102.2	10.88	1.1					
16-Apr-07	11	4.23	7.35	82.2	0.0526	101	10.86	1.4					
16-Apr-07	15.2	4.2	7.36	81.8	0.0524	100	10.75	1.9					
16-Apr-07	19.2	4.17	7.39	82.4	0.0527	99.8	10.74	1.8					
16-Apr-07	23.2	4.16	7.4	81.9	0.0524	99.6	10.72	1.6					
16-Apr-07	27.3	4.15	7.37	81.9	0.0524	99.3	10.69	1.6					
16-Apr-07	31.5	4.12	7.42	82.3	0.0527	99.2	10.69	1.6					
16-Apr-07	35.6	4.12	7.42	82.2	0.0526	99	10.68	1.6					
16-Apr-07	39.8	4.22	7.54	82.6	0.0529	98.8	10.62	1.9					
16-Apr-07	44.1	4.2	7.42	82.2	0.0526	98.5	10.59	1.9					
16-Apr-07	47.7	4.2	7.51	82.4	0.0527	98.5	10.6	2					
16-Apr-07	51.6	4.2	7.49	82.4	0.0527	98.4	10.58	2					
16-Apr-07	55.5	4.19	7.48	82.5	0.0527	98.2	10.57	2					
16-Apr-07	59.8	4.17	7.49	82.4	0.0527	97.9	10.53	1.9					
16-Apr-07	64	4.17	7.49	82.7	0.0529	97.6	10.51	2					
16-Apr-07	67.9	4.13	7.48	82.4	0.0528	97.5	10.5	2					
16-Apr-07	69.8	4.16	7.42	90.6	0.0580	92.7	9.97						
Minimum	0.1	4.12	6.95	81.8	0.0524	92.7	9.97	1.1	100	0.12	5.5	140	
Maximum	69.8	6.1	7.54	90.6	0.0580	106.6	10.94	3.7	100	0.12	5.5	140	
Mean	36	4.33	7.41	82.9	0.0530	99.4	10.65	1.9	100	0.12	5.5	140	

Date (dd-mmm-yy)	Depth (ft.)	Temp. (°C)	pH (units)	Specific Conductance (µSiemens/cm)	TDS (g/L)	DO (% saturation)	DO (mg/L)	Turbidity (NTU)	True Color (pcu)	Total Phosphorous (mg/L)	Chlorophyll a (µg/L)	Secchi Disc Depth (cm)	Comments
07-Jun-07	0	18.95	7.57	106.7	0.0683	85.2	7.75	1.3				135	True Color, Total Phosphorous, and Chlorophyll a samples collected at a depth of 1 m.
07-Jun-07	4.2	18.92	7.64	106.7	0.0683	84.6	7.7	1.1	80	0.05	3.3		
07-Jun-07	7.7	18.92	7.65	106.7	0.0683	84.7	7.7	1					
07-Jun-07	11.9	18.92	7.65	106.3	0.0680	84.5	7.69	0.9					
07-Jun-07	15.9	18.92	7.66	106.6	0.0682	84.3	7.68	1					
07-Jun-07	19.8	18.91	7.66	106.8	0.0684	84.1	7.66	1.1					
07-Jun-07	24	18.9	7.66	106.7	0.0683	84	7.65	1.1					
07-Jun-07	27.9	18.88	7.67	106.3	0.0680	83.5	7.6	1.1					
07-Jun-07	32.1	18	7.56	107.3	0.0687	77.3	7.17	1.4					
07-Jun-07	36.4	17.54	7.5	107.2	0.0686	83.4	6.88	1.6					
07-Jun-07	40.3	17.14	7.45	106.9	0.0684	70.8	6.69	1.7					
07-Jun-07	44.5	16.91	7.43	106.6	0.0682	69.8	6.62	1.7					
07-Jun-07	48.5	16.73	7.41	106.5	0.0682	68.3	6.5	1.9					
07-Jun-07	52.7	16.45	7.37	105.6	0.0676	65	6.23	2.1					
07-Jun-07	56.9	16.22	7.34	105.6	0.0676	61.9	5.96	2.3					
07-Jun-07	60.8	16.1	7.31	106.3	0.0680	59.5	5.74	2.4					
07-Jun-07	64.8	15.44	7.24	109.4	0.0700	46.8	4.58	3.6					
07-Jun-07	66.8	15.09	7.2	111.2	0.0712	36.6	3.61						
Minimum	0	15.09	7.2	105.6	0.0676	36.6	3.61	0.9	80	0.05	3.3	135	
Maximum	66.8	18.95	7.67	111.2	0.0712	85.2	7.75	3.6	80	0.05	3.3	135	
Mean	34	17.61	7.50	107.0	0.0685	73.0	6.75	1.6	80	0.05	3.3	135	

Date (dd-mmm-yy)	Depth (ft.)	Temp. (°C)	pH (units)	Specific Conductance (µSiemens/cm)	TDS (g/L)	DO (% saturation)	DO (mg/L)	Turbidity (NTU)	True Color (pcu)	Total Phosphorous (mg/L)	Chlorophyll a (µg/L)	Secchi Disc Depth (cm)	Comments
12-Jul-07	0	23.35	6.84	124.1	0.0794	79.3	6.62	0.1				240	True Color, Total Phosphorous, and Chlorophyll a samples collected at a depth of 1 m.
12-Jul-07	3	23.41	6.87	124.1	0.0794	79	6.59	0.1	60	0.1	4		
12-Jul-07	7.3	23.42	6.89	123.9	0.0793	78.7	6.56	0					
12-Jul-07	11.4	23.41	6.89	123.7	0.0792	78.4	6.54	0					
12-Jul-07	15.8	23.42	6.9	124.1	0.0794	78.1	6.51	0.3					
12-Jul-07	19.8	23.42	6.91	123.9	0.0793	77.7	6.48	0.5					
12-Jul-07	23.9	23.39	6.93	123.7	0.0792	76.1	6.35	0.3					
12-Jul-07	27.7	23.3	6.95	126	0.0806	67.8	5.67	0.5					
12-Jul-07	31.8	23.2	6.96	123.5	0.0790	64	5.36	0.9					
12-Jul-07	35.9	23.1	6.98	123.6	0.0791	62.2	5.22	0.9					
12-Jul-07	40	22.85	6.99	124.9	0.0799	53.2	4.48	0.9					
12-Jul-07	45	22.53	6.97	123.1	0.0788	44.6	3.78	1.2					
12-Jul-07	48.1	22.14	7.02	120.5	0.0771	37.8	3.23	1.4					
12-Jul-07	52.2	21.51	7.03	118.9	0.0761	31.3	2.71	1.8					
12-Jul-07	56.3	20.64	7.03	118.1	0.0756	20.4	1.8	2.1					
12-Jul-07	60.6	19.23	7.03	118.8	0.0760	3.3	0.3	2.7					
12-Jul-07	64.5	17.09	7	125.7	0.0805	2.4	0.23	1.7					
12-Jul-07	65.6	16.87	6.98	130.7	0.0837	2.1	0.2						
Minimum	0	16.87	6.84	118.1	0.0756	2.1	0.2	0	60	0.1	4	240	
Maximum	65.6	23.42	7.03	130.7	0.0837	79.3	6.62	2.7	60	0.1	4	240	
Mean	34	22.02	6.95	123.4	0.0790	52.0	4.37	0.9	60	0.1	4	240	

Date (dd-mm-yy)	Depth (ft.)	Temp. (°C)	pH (units)	Specific Conductance (µSiemens/cm)	TDS (g/L)	DO (% saturation)	DO (mg/L)	Turbidity True (NTU)	True Color (pcu)	Total Phosphorous (mg/L)	Chlorophyll a (µg/L)	Secchi Disc Depth (cm)	Comments
14-Aug-07	0.17	24.99	7.92	150.7	0.0964	113.8	7.83		60	0.09	30		Reservoir drawn down 30'
14-Aug-07	4.3	24.58	7.72	152	0.0973	88.1	6.1						No secchi reading taken
14-Aug-07	8.38	24.52	7.57	153	0.0979	81.7	5.67						Overcast
14-Aug-07	12.25	24.52	7.52	153.3	0.0981	81	5.62						True Color, Total Phosphorous, and Chlorophyll a samples collected at a depth of 1 m.
14-Aug-07	16.27	24.5	7.5	153.3	0.0981	80.6	5.59						
14-Aug-07	20.17	24.1	7.34	156.8	0.1004	53.6	3.75						
14-Aug-07	24.24	23.92	7.28	158.3	0.1013	44.1	3.09						
14-Aug-07	28.08	23.47	7.22	160.3	0.1026	32	2.26						
14-Aug-07	32.18	22.74	7.2	164.5	0.1053	10.2	0.73						
14-Aug-07	36.66	20.79	7.25	170.8	0.1093	4.6	0.34						
14-Aug-07	37.96	18.5	7.69	195.8	0.1253	3.7	0.29						
Minimum	0.17	18.5	7.2	150.7	0.0964	3.7	0.29	0	60	0.09	30	0	
Maximum	37.96	24.99	7.92	195.8	0.1253	113.8	7.83	0	60	0.09	30	0	
Mean	20	23.33	7.47	160.8	0.1029	53.9	3.75	#DIV/0!	60	0.09	30	#DIV/0!	