

## 2006 Hydro Water Quality Data Summary

Location	Field Temperature Degrees C	Field Conductivity umhos	Field pH	Field Dissolved Oxygen mg/l	Alkalinity as CaCO3 mg/l	Total Suspended Solids mg/l	Total Dissolved Solids mg/l	Sulfate mg/l	Color	Ammonia Nitrogen mg/l	Total Kjeldahl Nitrogen mg/l	Nitrite Nitrogen as N mg/l	Nitrate Nitrogen as N mg/l	Total Phosphorus mg/l	Total Organic Carbon mg/l	Chlorophyll A mg/m3	Total Hardness as CaCO3 mg/l
BQTR - 5/19/06	12.2	119	7.6	10.1	46	2	88	7.2	130	<0.20	<0.48	<0.040	0.25	<0.13	14	1.7	52
BQTR - 7/13/06	23.4	204	7.8	7.8	83	<1	120	9.9	58	0.2	<0.48	<0.040	0.14	<0.13	6.9	0.62	99
BQTR - 10/26/06	6.3	209	8.1	11.8	89	<1	120	11	44	<0.20	<0.48	<0.20	<0.070	<0.13	7.2	1	100
BQTR - 12/19/06	0.7	220	8	13.7	94	<1	130	13	44	0.56	<0.48	<0.040	0.25	<0.13	6.2	0.8	110
HTR - 5/18/06	11.9	78	7.6	9.5	27	2	58	5.3	78	<0.20	1	<0.040	0.27	<0.13	8.9	1.7	33
HTR - 7/13/06	20.1	111	7.1	7.9	43	1	68	5.5	98	0.23	0.78	<0.040	<0.088	7.2	9.9	2.3	52
HTR - 10/26/06	5.7	139	8	12.5	60	1	92	6.1	45	<0.20	0.53	<0.20	<0.070	<0.13	4.9	4.6	66
HTR - 12/19/06	1.3	163	7.8	13.5	73	<1	94	7.8	41	<0.50	<0.48	<0.040	0.15	<0.13	6	2.6	83
TFTR - 5/18/06	10.5	125	7.7	10.2	46	1	82	7.6	100	<0.20	<0.48	<0.040	0.26	<0.13	11	2.3	53
TFTR - 7/13/06	22.9	194	7.8	7.7	78	2	110	12	42	<0.20	<0.48	<0.040	0.14	<0.13	7.2	2.1	97
TFTR - 10/26/06	6.2	198	8.1	11.9	84	<1	120	12	36	<0.20	<0.48	<0.20	<0.070	<0.13	6.9	1.1	95
TFTR - 12/19/06	1	206	7.9	12.5	86	<1	120	13	32	<0.50	<0.48	<0.040	0.22	<0.13	6.8	1	100
KTR - 5/19/06	12.2	118	7.8	9.8	45	4	92	7.2	130	<0.20	<0.48	<0.040	0.24	<0.13	15	2.3	52
KTR - 7/13/06	22.9	197	8	8	82	4	100	10	61	<0.20	<0.48	<0.040	<0.088	<0.13	7.2	1.9	99
KTR - 10/26/06	5.9	196	8.1	11.5	86	<1	130	10	46	<0.20	<0.48	0.13	Combined	<0.13	8	1.3	96
KTR - 12/19/06	0.9	217	7.9	12.6	93	<1	140	13	43	<0.50	<0.48	<0.040	0.25	0.62	6.7	0.83	110
PVTR - 5/18/06	11.8	89	7.6	9.9	34	1	60	5.6	90	<0.20	<0.48	<0.040	0.26	<0.13	11	2.3	38
PVTR - 7/13/06	20.6	105	7.3	6.6	40	<1	68	5.5	76	0.2	0.66	<0.040	0.16	<0.13	10	1.6	51
PVTR - 10/26/06	4.8	139	7.9	12.3	55	<1	86	5.8	44	<0.20	<0.48	<0.20	<0.070	<0.13	6.9	2.3	61
PVTR - 12/19/06	1.4	154	7.9	13.6	65	<1	92	6.6	36	<0.50	<0.48	<0.040	<0.088	<0.13	8.3	2.6	74
MFTR - 5/18/06	12	94	7.5	9.5	35	2	74	5.8	90	<0.20	<0.48	<0.040	0.27	<0.13	10	2.2	39
MFTR - 7/13/06	21.5	109	7.3	7.8	41	<1	64	5.6	78	0.21	<0.48	<0.040	0.14	<0.13	11	1.4	51
MFTR - 10/26/06	6	135	7.9	12	54	<1	74	5.7	44	<0.20	<0.48	0.05	Combined	<0.13	5.1	1.5	61
MFTR - 12/19/06	0.4	154	7.8	14.2	64	<1	84	6.5	34	<0.50	<0.48	<0.040	<0.088	<0.13	8.6	2.3	74
PCTR - 5/18/06	12.4	91	7.5	9.6	36	2	76	5.1	150	0.22	<0.48	<0.040	0.21	<0.13	16	2.2	41
PCTR - 7/13/06	23.5	183	8.2	8.3	76	1	94	6.9	55	<0.20	0.58	<0.040	<0.088	<0.13	5.7	1.6	90
PCTR - 10/26/06	3.8	182	8.2	12.5	80	1	120	8.1	42	<0.20	<0.48	0.09	Combined	<0.13	3.8	1.9	86
PCTR - 12/19/06	0.4	177	7.8	14.1	76	3	120	8.8	44	<0.50	<0.48	<0.040	0.29	<0.13	7.6	1.3	89
MRTR - 5/18/06	11.3	77	7.5	9.6	27	1	62	5.3	86	<0.20	<0.48	<0.040	0.27	<0.13	9.5	1.2	32
MRTR - 7/13/06	19.3	108	7.2	7.6	42	8	66	5.4	100	0.23	0.96	<0.040	<0.088	<0.13	9.8	2.7	51
MRTR - 10/26/06	6.2	139	8.1	12.4	59	5	76	6.1	58	<0.20	<0.48	0.03	Combined	<0.13	5.2	7	66
MRTR - 12/19/06	2.3	169	7.8	13.3	72	3	100	7.7	43	<0.50	<0.48	<0.040	0.15	<0.13	7.7	3.7	83
QC1 - 5/18/06 ( MRTR )					27	2	70	5.3	90	<0.20	<0.48	<0.040	0.26	<0.13	9.5	1.2	42
QC1 - 7/13/06 ( HTR )					43	1	78	5.4	80	0.22	0.71	<0.040	<0.088	<0.13	9.7	1.8	55
QC1 - 10/26/06 ( PVTR )					55	<1	110	5.8	45	<0.20	<0.48	<0.20	<0.070	<0.13	7.8	2.4	61
QC1 - 12/19/06 ( MFTR )					64	<1	96	6.5	35	<0.50	<0.48	<0.040	<0.088	<0.13	8.4	2.5	71

Acronyms used in this Table

BQTR- Big Quinnesec Falls Tail Race  
HTR-Hemlock Falls Tail Race  
TFTR-Twin Falls Tail Race  
Kingsford Tail Race  
Peavy Falls Tail Race  
MFTR-Michigamme Falls Tail Race  
Paint Canal Tail Race  
MRTR-Michigamme Reservoir Tail Race ( Way Dam )



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February 20, 2007

Ms. Magalie R. Salas, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, D.C. 20426

RE: Way Dam Hydroelectric Project and Michigamme Reservoir- FERC No. 1759  
Hemlock Falls Hydroelectric Project - FERC No. 2074  
Peavy Falls Hydroelectric Project - FERC No. 11830  
Lower Paint Hydroelectric Project - FERC No. 2072  
Michigamme Falls Hydroelectric Project - FERC No. 2073  
Twin Falls Hydroelectric Project - FERC No. 11831  
Kingsford Hydroelectric Project - FERC No. 2131  
Big Quinnesec Falls Hydroelectric Project- FERC No. 1980

Articles 407 ( Project Nos. 2072, 11830 ); 408 ( Project Nos. 2073, 2074, 2131, 11831 ); and 409  
( Project Nos. 1759, 1980 ) -Year 2006 Water Quality Monitoring Report

Wisconsin Electric Power Compan (WE) doing business as We-Energies, is hereby filing one original and eight additional copies of the results of the quarterly water chemistry sampling for the above identified Projects performed during 2006 in partial fulfillment of the monitoring plans approved and incorporated in the articles identified above for each of the projects.

The Commission issued new licenses for the above Projects on January 12, 2001 and by Order issued March 9, 2001 clarified certain Water Quality Monitoring requirements.

The Plan as approved by FERC order dated January 12, 2001 included the following requirement:

**Water Chemistry Monitoring**

- Samples to be collected in the tailraces of the above Projects
- Samples are collected quarterly ( May, July, October, December )
- Results are to be filed no later than March 31st of the following year

We are filing the Water Chemistry Monitoring results with this correspondence. The results for the Water Quality Monitoring Plan-required parameters are provided by station and by month in the Table contained in Appendix One of this filing.

Enclosed is a proof of service to the agencies listed on the copy list.

Please call me at (414) 221-2413, if you have questions on this matter.  
Sincerely,

*William R. Rauscher (s)*

William Rauscher

Manager, Hydroelectric Operations

Enclosures

cc: Mr. Bob Martini, WDNR w/encl.  
Mr. John Suppnick, MDEQ w/encl.  
Ms. Jessica Mistak, MDNR w/encl.  
Ms. Louise Clemency, FWS w/encl.  
David Michaud w/encl.  
John Hrobar w/encl.  
Russ Rick  
Thomas Plante w/encl.

Submission Contents

2006 Water quality reports for the Wilderness Shores hydro projects owned by We Energies FERC1.pdf.....	1-2
2006 Water quality reports for the Wilderness Shores hydro projects owned by We Energies FERC2.pdf.....	3-5