

we energies



December 13, 2012

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Iron Mountain, MI 49801

tel 906.779.2400

www.we-energies.com

Ms. Kimberly Bose
Federal Energy Regulatory Commission
Division of Licensing and Compliance
888 First Street NE
Washington, DC 20426

Dear Ms. Bose:

SUBJECT: YEAR 2011 WATER QUALITY MONITORING REPORT

Article 409 – Way Dam Project and Michigamme Reservoir – FERC No. 1759
Article 408 – Hemlock Falls Hydroelectric Project – FERC No. 2074
Article 407 – Lower Paint Hydroelectric Project – FERC No. 2072
Article 407 – Peavy Falls Hydroelectric Project – FERC No. 11830
Article 408 – Michigamme Falls Hydroelectric Project – FERC No. 2073
Article 408 – Twin Falls Hydroelectric Project – FERC No. 11831
Article 408 – Kingsford Hydroelectric Project – FERC No. 2131
Article 409 – Big Quinnesec Falls Hydroelectric Project – FERC No. 1980

Wisconsin Electric Power Company, doing business as We Energies, is hereby filing the results of the quarterly water chemistry sampling for the above identified Projects performed during 2011 in partial fulfillment of the monitoring plans approved and incorporated in the articles identified above for each of the projects.

Regarding collection and reporting of the water chemistry data, please note:

- 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. You will note that this filing is well past the March 31st due date. We apologize for this error. We track tasks supporting license required filings as well as the due date of filings in a software program known as EMIS (Environmental Management Information System). The system appropriately reminded us to collect the data last year, however, the task for filing the report either was lost through several upgrades of the program or was never put in the system. This has since been corrected.

If you have any questions concerning this filing please contact me at 906-779-4099.

Sincerely,

A handwritten signature in blue ink that reads "Todd P. Jastremski".

Mr. Todd P. Jastremski, Manager
Hydroelectric Operations Division

Ms. Kimberly Bose
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cc: Kyle Kruger – MDNR
Nicholas Utrup – FWS
Michael Donofrio – WDNR
Cheryl Laatsch – WDNR

Attachment: We Energies 2011 Hydro Water Quality Data

We Energies 2011 Hydro Water Quality Data

Site	Date	Field Temp Degree C	Field Cond umhos	Field pH S.U.	Field DO mg/l	Alkalinity as CaCO3 mg/l	TSS mg/l	TDS mg/l	Sulfate mg/l	Color Units	Ammonia Nitrogen mg/l	TKN mg/l	TP mg/l	TOC ppm	Chlorophyll a ug/l	Nitrite as N mg/l	Nitrate as N mg/l	Ca mg/l	Mg mg/l	Hardness as CaCO3 mg/l
MRTR	5/17/2011	10.0	83	7.2	10.2	29	<2	<36	4.4	94	<0.25	0.58	0.022	12.6	2.1	<0.10	0.31	8	3	34
MRTR	7/12/2011	17.8	100	7.0	7.9	38	2.2	68	5.6	96	<0.25	1.3	<0.20	10.3	2.0	<0.10	0.26	11	5	48
MRTR	10/4/2011	13.3	131	8.0	10.1	57	2.6	90	5.6	56	<0.25	0.56	<0.20	9.0	4.5	<0.10	<0.20	14	6	60
MRTR	12/6/2011	1.7	138	8.3	15.0	61	0.80	80	6.6	43	<0.25	<0.35	<0.20	7.0	5.0	<0.10	<0.20	16	7	68
HTR	5/17/2011	10.2	85	7.2	10.1	30	<2	50	4.0	99	<0.25	0.37	0.022	12.6	2.7	<0.10	0.29	9	3	36
HTR	7/12/2011	19.9	103	7.2	7.8	38	1.7	68	5.4	88	<0.25	0.91	<0.20	10.2	3.0	<0.10	0.22	11	5	48
HTR	10/4/2011	14.2	131	8.2	10.3	58	1.6	90	5.5	57	<0.25	0.53	<0.20	4.9	4.9	<0.10	<0.20	14	6	61
HTR	12/6/2011	1.0	139	8.2	14.1	63	0.60	96	6.6	62	<0.25	<0.35	<0.20	7.2	1.7	<0.10	<0.20	16	7	70
PCTR	5/17/2011	12.0	109	7.3	10.0	41	<2	84	4.9	82	<0.25	0.75	0.024	16.1	1.6	<0.10	0.21	13	4	51
PCTR	7/12/2011	24.5	169	7.6	7.2	70	1.7	102	6.2	106	<0.25	0.72	<0.20	11.2	3.8	<0.10	<0.20	21	8	84
PCTR	10/4/2011	12.4	201	8.1	10.6	93	2	130	7.7	36	<0.25	0.36	<0.20	4.7	0.8	<0.10	<0.20	23	9	96
PCTR	12/6/2011	0.4	179	8.0	13.9	80	0.40	114	9.6	40	<0.25	<0.35	<0.20	8.0	0.8	<0.10	0.27	22	8	89
PVTR	5/17/2011	11.1	112	7.5	10.2	41	<2	76	4.8	89	<0.25	0.63	0.025	11.8	2.7	<0.10	0.33	11	4	46
PVTR	7/12/2011	18.8	111	7.1	5.9	44	0.86	66	5.4	88	<0.25	0.73	<0.20	11.7	3.0	<0.10	0.22	13	5	54
PVTR	10/4/2011	14.8	135	8.0	9.1	54	1	92	5.3	54	<0.25	0.54	<0.20	9.8	1.3	<0.10	<0.20	14	6	60
PVTR	12/6/2011	2.1	139	8.0	12.7	62	0.40	86	6.4	41	<0.25	<0.35	<0.20	8.6	2.1	<0.10	<0.20	16	7	70
MFTR	5/17/2011	11.3	107	7.2	9.7	41	<12	44	5.3	88	<0.25	0.59	0.023	11.2	2.3	<0.10	0.29	11	4	46
MFTR	7/12/2011	22.6	115	7.3	6.9	46	1.5	60	5.4	89	<0.25	0.71	<0.20	11.9	3.3	<0.10	0.20	13	6	56
MFTR	10/4/2011	14.8	135	8.0	8.9	56	1	92	5.2	54	<0.25	0.68	<0.20	8.8	2.1	<0.10	<0.20	14	6	59
MFTR	12/7/2011	2.0	142	8.1	13.1	62	0.60	88	6.3	42	<0.25	<0.35	<0.20	7.4	2.3	<0.10	<0.20	16	7	70
TFTR	5/17/2011	12.4	124	7.4	9.5	47	2	64	6.3	100	<0.25	0.68	0.029	11.6	3.6	<0.10	0.27	13	5	54
TFTR	7/12/2011	24.4	166	7.6	7.5	66	1.6	90	8.6	97	<0.25	0.82	<0.20	11.3	6.6	<0.10	0.21	19	8	82
TFTR	10/4/2011	14.3	205	8.2	10.1	86	1	130	11.0	39	<0.25	0.47	<0.20	6.5	2.5	<0.10	<0.20	22	10	97
TFTR	12/7/2011	1.6	185	8.2	13.4	80	0.20	110	10.5	39	<0.25	<0.35	<0.20	6.0	2.1	<0.10	0.20	22	10	94
KTR	5/17/2011	11.9	125	7.5	10.1	49	2	76	5.6	127	<0.25	0.68	0.029	14.8	3.3	<0.10	0.29	14	6	58
KTR	7/12/2011	24.5	181	7.6	7.4	74	2	104	7.9	127	<0.25	0.89	<0.20	13.8	5.4	<0.10	0.22	21	10	93
KTR	10/4/2011	13.6	228	8.2	9.6	97	1.4	134	10.8	39	<0.25	0.44	<0.20	6.2	1.7	<0.10	<0.20	24	11	104
KTR	12/7/2011	1.2	194	8.1	13.6	89	1.2	116	11.0	44	<0.25	<0.35	<0.20	6.1	1.2	<0.10	0.22	23	11	102
BQTR	5/17/2011	12.3	129	7.6	10.6	50	2	58	5.7	126	<0.25	0.89	0.028	14.7	2.7	<0.10	0.30	14	6	58
BQTR	7/12/2011	23.6	174	7.4	7.3	70	1.4	110	7.8	125	<0.25	0.97	<0.20	14.2	2.4	<0.10	0.25	20	9	88
BQTR	10/4/2011	13.6	228	8.1	9.6	98	0.80	140	11.5	39	<0.25	0.87	<0.20	6.3	1.2	<0.10	<0.20	25	12	110
BQTR	12/7/2011	1.0	211	8.2	13.8	91	0.60	118	11.7	46	<0.25	<0.35	<0.20	6.8	0.9	<0.10	0.25	24	11	105
QC1 5/17/11 (MFTR)						41	<2	70	4.7	86	<0.25	0.61	0.047	10.8	2.7	<0.10	0.26	11	5	46
QC1 7/12/11 (TFTR)						64	1.7	102	8.7	95	<0.25	0.83	<0.20	12.5	6.4	<0.10	0.21	19	8	82
QC1 10/4/11 (MFTR)						55	1.2	86	5.2	53	<0.25	0.54	<0.20	9.2	1.9	<0.10	<0.20	14	6	60
QC1 12/7/11(MFTR)						62	0.60	82	6.3	41	<0.25	<0.35	<0.20	7.4	2.4	<0.10	<0.20	16	7	70

We Energies 2011 Hydro Water Quality Data

Acronyms used in this table:

MRTR - Michigamme Reservoir Tailrace (Way Dam)
HTR - Hemlock Falls Tailrace
PCTR - Paint Canal Tailrace
PVTR - Peavy Falls Tailrace
MFTR - Michigamme Falls Tailrace
TFTR - Twin Falls Tailrace
KTR - Kingsford Tailrace
BQTR - Big Quinnesec Falls Tailrace

Lab Analysis:

5/17 /11 Samples - Alkalinity, TSS, TDS, Sulfate, Ca, Mg, Hardness & Total Phosphorus (TP) were analyzed by We Energies Lab Services. All other were sent to Pace Analytical. The samples for the three other quarters were sent to Pace Analytical. They sub-contracted all of the 'chlorophyll a' samples to Northern Lake Service, Inc.

Wisconsin Certified Lab Numbers:

We Energies Lab : 329241000
Pace Analytical: 405132750
Northern Lake Service: 721026460

Document Content(s)

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