

January 31, 2018

Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, DC 20426

RE: Winter Hydroelectric Project FERC Project Number P-2064 Flambeau Hydro LLC Final Report 2017 Water Quality Monitoring Data

Dear Ms. Bose:

On behalf of Flambeau Hydro LLC, "Flambeau" (Licensee), Renewable World Energies, LLC (RWE) is submitting a copy of the *Final Report 2017 Water Quality Monitoring Data* for the Winter Hydroelectric Project. The Federal Energy Regulatory Commission "FERC" issued a License to Flambeau on August 12, 2005. A revised Water Quality Certification was issued August 19, 2008. This report is submitted as a requirement of that License pursuant to License Article 401 Condition N, Appendix A. 2017 was the eleventh year monitoring was conducted since the license was issued, but is the 6th year of submittal by RWE on the behalf of the Licensee.

Monitoring was conducted on April 11, July 18, and August 14, 2017. No unusual temperature or dissolved oxygen reading were observed. The draft report was sent to the agencies by an attachment to an email on November 16, 2017 for review and comment. No comments have been received as of the date of this letter. The next scheduled monitoring event will be conducted in 2018.

If you have any questions concerning this submittal, please contact Brian Kreuscher at the Renewable World Energies, LLC offices @ 855-994-9376 Ext 230. He can also be reached by e-mail at bkreuscher@rwehydro.com.

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Sincerely, Renewable World Energies, LLC Agent for Licensee

Bill

Mr. Jason Kreuscher Vice President, Operations

Attachment: Final Report 2017 Water Quality Monitoring Data Correspondence

Cc: Mr. Paul Strong, USFS Mr. Dale Higgins, USFS Ms. Sue Reinecke, USFS Ms. Cheryl Laatsch, WDNR Mr. Nick Utrup, USFWS RWE, Corporate

Final Report

2017 Water Quality Monitoring Data

for the

Winter Hydroelectric Project

FERC Project #2064

Flambeau Hydro, LLC

East Fork of the Chippewa River, Sawyer County, Wisconsin

Respectfully Submitted by:

Angie Stine



429 River Lane, P.O. Box 27 Amasa, Michigan 49903

Phone: 906-822-7889

Summary Winter Hydroelectric Project – FERC #2064

2017 marked the eleventh year of water quality sampling under FERC License issued August 12, 2006 Per Article 401, Water Quality Certification Condition N, Appendix A for the Winter Hydroelectric Project – FERC Project # 2064 – Flambeau Hydro LLC. Monitoring was conducted on April 11, July 18, and August 14, 2017. This document contains all of the associated records for the 2017 monitoring along with summary figures and tables in four appendices: (1) Appendix A (Figures 1-4), (2) Appendix B (Tables 1-3), (3) Appendix C (sampling logs by date), and (4) Appendix D (laboratory reports and chains of custody).

A map of the Winter Hydroelectric Project is shown in Figure 1 indicating the water quality sampling location.

Monitoring results for 2017 are shown in Table 1. No unusual Temperature (Figure 2) or Dissolved Oxygen (Figure 3) readings were observed. The Secchi depths are shown in Figure 4.

In general, the weather (temperature and rainfall) during 2017 monitoring season appeared slightly warmer in May, June, and July, & August, with lower than normal precipitation in April and May, and normal to high precipitation in the months of June, July and August (Table 2). Sampling and testing of the samples was coordinated with the sampling done at the Flambeau Projects (Upper, Lower, Pixley, Crowley). These projects are located on the North Fork of the Flambeau River, Price County, Wisconsin. Protocol, procedures, and sampling design followed that of the Flambeau Projects.

Ice-Out occurred on the East Fork of the Chippewa sometime during the week beginning April 3, 2017. The Ice-Out sampling event occurred on April 11, 2017. River flow, based on the Winter Hydroelectric Project records, was approximately 471 cubic feet per second. Sampling occurred between 13:49 and 13:57. Samples were taken without incident. No unusual D.O. or Temperature readings were observed. Samples for laboratory analysis were delivered to White Water Associates, Inc. laboratory in Amasa, MI on April 13, 2017. White Water Associates, Inc. issued a laboratory report on April 27, 2017. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on the Winter Hydroelectric Project records, was approximately 110 cubic feet per second during the July 18, 2017 sampling event. Sampling occurred between 1344 and 1346. Samples were taken without incident. No unusual D.O. or Temperature readings were observed. Samples for laboratory analysis were delivered to White Water Associates, Inc. laboratory in Amasa, MI on July 20, 2017. White Water Associates, Inc. issued a laboratory report on September 21, 2017. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on the Winter Hydroelectric Project records, was approximately 135 cubic feet per second during the August 14, 2017 sampling event. Sampling occurred between 1350 and 1402. Samples were taken without incident. No unusual D.O. or Temperature readings were observed. Samples for laboratory analysis were delivered to White Water Associates, Inc. laboratory in Amasa, MI on August

16, 2017. White Water Associates, Inc. issued a laboratory report on September 14, 2017. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

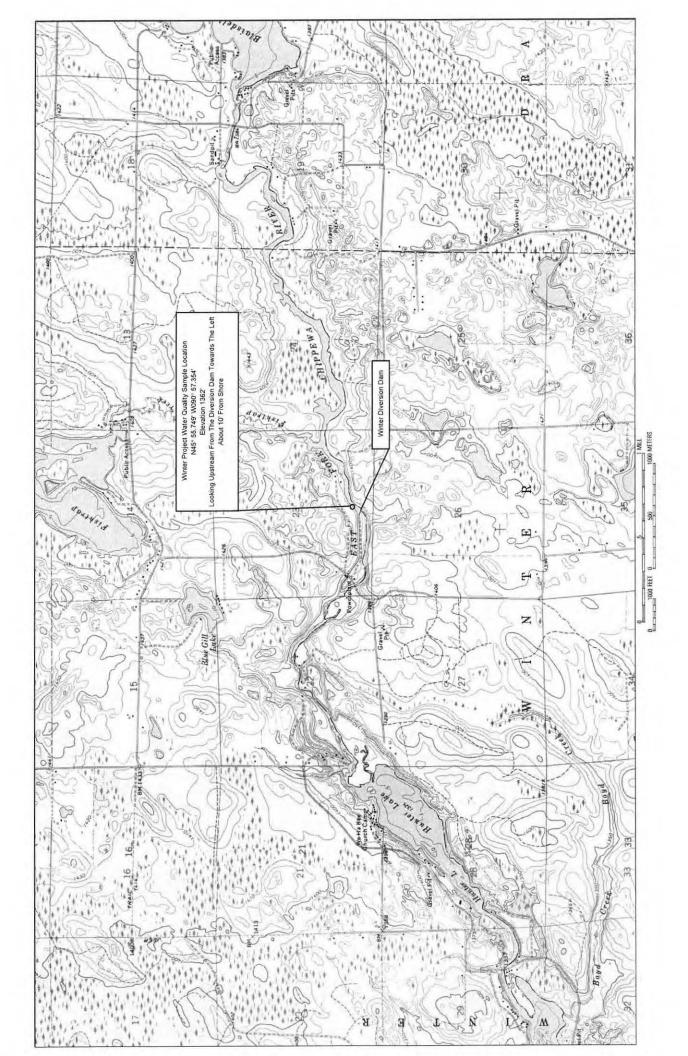
A summary of a comparison between the 2011 thru 2017 (Table 3) sampling results are as follows:

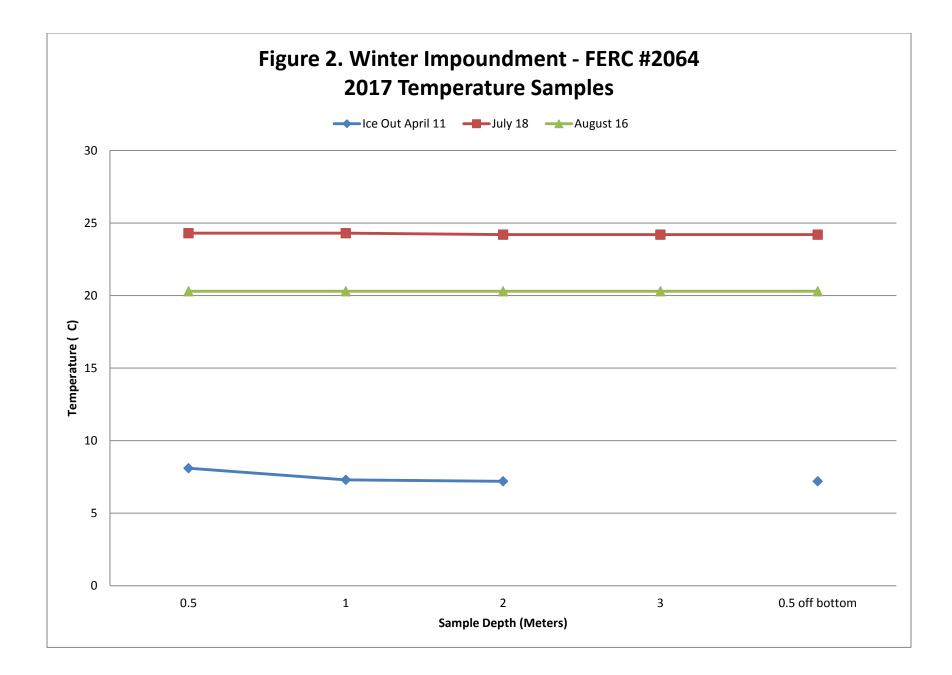
- 1. Water Clarity Secchi Icreased Ice Out, July and August
- 2. Chlorophyll a Decreased Ice Out & August & Increased July
- 3. Color –Increased Ice Out, July, and August
- 4. Total Phosphorus Increased Ice Out, Decreased July & August
- 5. Overall, D.O. Decreased Ice Out , Increased July & August
- 6. Water Temperatures Increased Ice Out and July, Decreased August

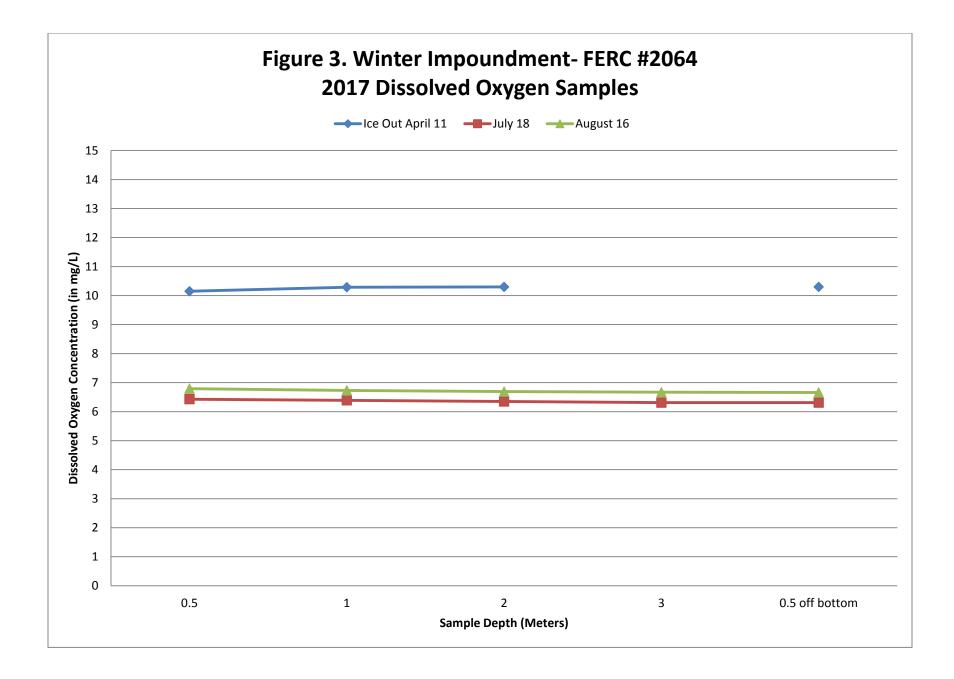
The next scheduled Water Quality Monitoring at the Winter Hydroelectric Project is set to take place in 2018 beginning with the Ice-Out sampling event.

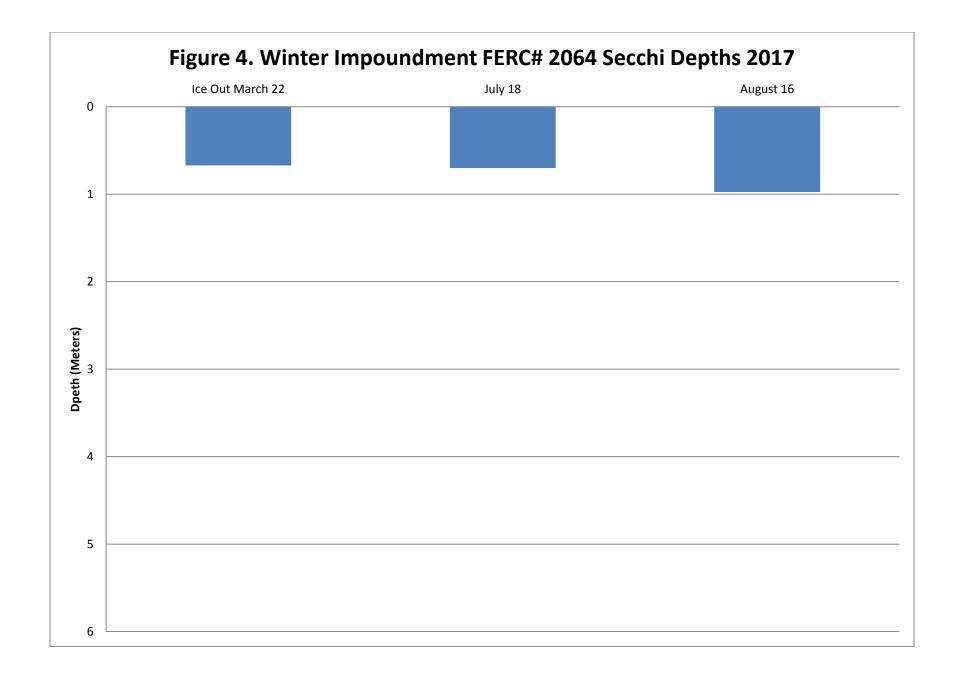
Appendix A – Winter Hydroelectric Project Figures

Figure 1. Winter Impoundment Project Map (next page)









Appendix B – Winter Hydroelectric Project Tables

	Ice Out April 11, 2017		July 18, 2017		August 14, 2017				
Project Flow (c.f.s)		471			110		135		
Dissolved Oxygen	Time	D.O. (mg/L)	Water Temp. (°C)	Time	D.O. (mg/L)	Water Temp. (°C)	Time	D.O. (mg/L)	Water Temp. (°C)
0.5 meter below surface	13:52:00	10.15	8.1	13:38:12	6.43	24.3	13:53:17	6.79	20.3
1 meter below surface	13:55:00	10.29	7.3	13:39:31	6.39	24.3	13:54:36	6.73	20.3
2 meter below surface	13:56:34	10.30	7.2	13:41:08	6.31	24.2	13:56:06	6.67	20.3
3 meter below surface	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
0.5 meter above bottom	13:57:20	10.30	7.2	13:41:59	6.31	24.2	13:56:47	6.66	20.3
Secchi Disk	Time	Depth (m)		Time	Depth (m)		Time	Depth (m)	
Meters below surface	13:55	1.0		14:46	1.4		14:02	1.4	
Chlorophyll <i>a</i> 1 meter below surface	Time 13:50	µg/L 3.9	-	Time 13:44	µg/L 3.1		Time 13:54	μg/L 2.8	
Color (True)	Time	C.P.U. Units	LOD	Time	C.P.U. Units	LOD	Time	C.P.U. Units	LOD
1 meter below surface	13:50	35	5*	13:44	55	5*	13:54	40	5*
Total Phosphorus	Time	mg/L	LOD	Time	mg/L	LOD	Time	mg/L	LOD
1 meter below surface	13:50	0.022	0.01*	13:44	0.033	0.008*	13:54	0.023	0.008*
1 meter above bottom	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
* Considered Method Dete	ection Limit	N/A = Not A	Applicable						

Table 1. Winter Hydroelectric Project – FERC Project # 2064: 2017 Water Quality Sampling Data

				Departure	Heating	Normal				
Month	Highest	Lowest	Average	From	Degree	Degree	Total	Total	Normal	% of Normal
	Temp.	Temp.	Temp.	Normal	Days	Days	Precip.	Snowfall	Precip.	Precipitation
October - 16	74	30	47.6	4.4	531	678	1.55	Trace	2.85	75
November - 16	70	10	40.2	11.4	735	1088	2.60	8.1	2.09	78
December - 16	39	-21	15.9	1.1	1512	1556	2.07	21.3	1.21	79
January – 17	45	-22	16.0	5.8	1511	1699	1.16	15.5	0.96	78
February – 17	52	-11	22.5	7.4	1185	1399	1.80	14.1	0.81	73
March – 17	59	-29	26.3	0.4	1193	1210	1.05	5.3	1.49	67
April – 17	70	23	42.2	2.6	678	762	3.02	1.9	2.43	68
May – 17	75	32	50.3	-1.1	446	426	4.11	0.8	3.23	68
June – 17	88	18	60.9	0.8	131	179	5.21	0.00	4.23	71
July – 17	86	48	65.3	-0.5	53	63	4.11	0.00	3.85	77
August – 17	82	46	61.5	-2.8	117	86	7.23	0.00	3.70	79
September - 17	83	37	58.6	3.0	212	298	3.55	0.00	4.11	81

Table 2. 2016/17 Water Year Monthly Temperature and Precipitation for Winter, Wisconsin

Source: NOAA/Duluth, MN

Table 3. Winter Project Sampling Comparison Table: 2011 Thru Current Year									
Year	Month	Secchi Depth	Chlorophyll a	Color (True)	Total Phosphorus	Low D.O.	High D.O.	Low Water Temp.	High Water Temp.
		meters	μg/L	C.P.U. Units	Below Surface	mg/L	mg/L	° C	° C
					mg/L	_	_		
2011	April	1.00	0.00	150.00	0.028	11.85	12.10	8.10	8.60
2012	April	0.50	2.30	250.00	0.048	10.55	10.73	9.90	10.60
2013	May	1.20	1.90	250.00	0.036	9.34	9.61	6.90	7.80
2014	June	1.50	2.30	300.00	0.055	6.98	7.07	19.90	20.10
2015	April	0.80	3.70	180.00	0.036	9.57	9.72	10.00	11.60
2016	March	0.67	0.41	40.00	0.020	11.30	11.49	3.10	3.60
2017	April	1.03	3.90	35.00	0.022	10.15	10.30	7.20	8.10
Minimum	March/April/June	0.50	0.00	35.00	0.020	6.98	7.07	3.10	3.60
Maximum	March/April/June	1.50	3.90	300.00	0.055	11.85	12.10	19.90	20.10
Average	March/April/June	0.96	2.07	172.14	0.035	9.96	10.15	9.30	10.06
2011	July	0.80	4.30	250.00	0.055	5.84	6.44	26.10	27.70
2012	July	0.60	1.80	400.00	0.082	4.67	4.75	25.50	25.90
2013	July	0.80	1.90	400.00	0.064	5.05	5.21	25.20	26.10
2014	July	0.60	1.50	250.0	0.050	6.31	6.44	19.00	19.40
2015	July	0.70	1.80	25.00	0.044	6.47	6.53	22.30	22.30
2016	July	0.70	2.20	85.00	0.035	5.77	5.86	22.60	23.10
2017	July	1.40	3.10	55.00	0.033	6.31	6.43	24.20	24.30
Minimum	July	0.60	1.50	25.00	0.033	4.67	4.75	19.00	19.40
Maximum	July	1.40	4.30	400.00	0.082	6.47	6.53	26.10	27.70
Average	July	0.80	2.37	209.29	0.052	5.77	5.95	23.56	24.11
-									
2011	August	0.70	3.70	250.00	0.055	7.25	7.27	24.70	25.10
2012	August	1.10	3.00	200.00	0.047	7.27	7.55	23.40	25.10
2013	August	0.90	2.00	200.00	0.120	5.49	6.10	20.00	20.10
2014	August	0.90	1.80	150.00	0.040	6.54	6.68	23.70	23.80
2015	August	0.70	3.30	300.00	0.051	5.95	6.10	22.80	23.20
2016	August	0.98	1.50	60.00	0.038	5.83	5.96	23.50	24.80
2017	August	1.40	2.80	40.00	0.023	6.66	6.79	20.30	20.30
Minimum	August	0.70	1.50	40.00	0.023	5.49	5.96	20.00	20.10
Maximum	August	1.40	3.70	300.00	0.120	7.27	7.55	24.70	25.10
Average	August	0.95	2.59	171.43	0.053	6.43	6.64	22.63	23.20

Appendix C – Winter Impoundment Project Sampling Logs

Water Quality Study Location (1) , $1 + e$,(1 M Time,Hydroelectric Project - FERC # $2069'$ Date: $4 - 1/-17$ Pre-Sampling Data:(1 N Time)HWL 370 , $(5TWL) 34(, 12 cFS _ 471CFS)$ TimeSample Location: 56404 N46° 55 344' 1090° , $57.354'$ Performed by: 1100° , 1100° , 1100° , 1100° Ar 500 A. T. Plan Max(1 N Time)Ar 500 A. T. Plan Max(1 N Time)Air Temp: 1290° , 1000° , $57.354'$ Precipitation within Last 24 Hours: $11'^\circ$ Do. Meter Calibration: 1100° Instrument Model Used: HQ40D 1000° Were the batteries changed?Yes \square NoIf yes, when were they changed: 100° Battery Status: 50° , 600° , 53° , 100° Sampling Depth Profile:Measured depth to bottom of impoundment:Secchi Depth (+0.1) $3, 4'$ Time $13,55^\circ$ FeetMettersMetters 1000°	IMPOUNDMENT SAMPLING LOG	
Hydroelectric Project – FERC # 2064 Date: $4 - 1/-17$ Pre-Sampling Data:HWL 370 , (GTWL $34($		(1 M
Date: $4 - 1/-17$ Pre-Sampling Data: HWL 370, $57WL$ 346. 42 CFS 471CFS Sample Location: Source $1000^{\circ}, 57.354^{\circ}$ Performed by: 47.50A.T, $110MMCTimePerformed by:47.50A.T$, $110MMCTime13.49$ Barometer: $30, 2Air Temp: 422^{\circ} Wind Speed: NINW 6MpWSky Conditions: 6570 C10WSPrecipitation within Last 24 Hours: 0.1^{11}DefD.O. Meter Calibration:Instrument Model Used: HQ40DWere the batteries changed? 12^{\circ} Yes 100^{\circ}NoIf yes, when were they changed: 30^{\circ}Battery Status: 50^{\circ} % Charge 100^{\circ}Calibration Method: FactorySampling Depth Profile: Measured depth tobottom of impoundment: 100^{\circ} Metersmea$	Water Quality Study Location Winter	lime
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HWL $370, 105$ TWL $346, 42$ CFS 471 CFSSample Location:Stant 1100 1100 1100 1100 1100 1100	Pre-Sampling Data:	
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$A_7 S \oplus M$ $T_1 M M M M M$ Time: 12.44 Time: 12.44 Air Temp: 42.84 Wind Speed: $MW M M M$ Sky Conditions: $G570$ $G570$ $C10M M$ Precipitation within Last 24 Hours: 0.14 D.O. Meter Calibration: $0.5 h$ Instrument Model Used:HQ40DWere the batteries changed?YesInstrument Model Used:HQ40DWere the batteries changed?YesBattery Status: 50 $Sampling Depth Profile:Measured depth tobottom of impoundment:MetersMetersmeasuredSecchi Depth (+.0.1)3.41$	N45 55, 774 W40, 31,551	Time
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(1 Meter belo	Chlorophyll w surface ho	<i>a</i> rizontal sampler)
Time 13:50	Quantity (m	l) Filtered
·····	1000	In Lab
Preservative	M	gCO ₃

True Color (1 Meter below surface horizontal sampler) Time 13:50

Total P	hosphorus
(1 Meter below surf	ace horizontal sampler)
Time 13: 50	Preservative
	H ₂ SO ₄

Ťq	tal Phosphorus					
(1 Meter above bottom horizontal sampler)						
Time	Preservative					
and the second	H ₂ SO ₄					

and the second second	and the second second		
D.	O. and Tem	perature P	rofile
Depth 😱	🗸 Time	D.O.	Temperature
(Meters) [®]		(mg/L)	°C (
0.5 þelow surface	13:52	10,15	8.10
1	13:53:54	10,25	7.5
2	13.53:33	16,27	2.4
3	13.55 0	10.29	1,3
4	13:55:43	10,29	7.3
5	13:55:54	10,30	7,2
6	13:50 034	16:30	7.2
7	13.57.04	'IDIZO	7:2
8			
0.5 above bottom	13,57,20	10:30	7.2-

*If D.O. is below 5.0 mg/L notify agency and measure D.O. at 1.0 foot intervals if <5.0 mg/L.

Comments:



IMPOUNDMENT SAMPLING LOG
Water Quality Study Location
Hydroelectric Project – FERC # 2061
Date: 7 - 18 - 17
Pre-Sampling Data:
HWLTWLCFS
Sample Location: <u>1145 55.244 W9857.39</u> 1
Performed by: Stine 12604
Time:Barometer: 299
Air Temp: <u>75</u> of Wind Speed: www.5mph
Sky Conditions: 10042 dente
Precipitation within Last 24 Hours:
D.O. Meter Calibration:
Instrument Model Used: HQ40D
Were the batteries changed? 🗖 Yes 🗟 No
If yes, when were they changed:
Battery Status: \00% Charge
Calibration Method: Factory
Sampling Depth Profile: Measured depth to bottom of impoundment: 2.5 Meters
Secchi Depth (± 0.1)
Time 14,46 Feet 1.4 Meters

Chlorophyll a(1 Meter below surface horizontal sampler)Time15:44Quantity (ml)Filtered1000In LabPreservativeMgCO3

True Color (1 Meter below surface horizontal sampler) Time (3,イイ

Tot	al Phosphorus
(1 Meter below	surface horizontal sampler)
Time 13:44	Preservative
	H ₂ SO ₄

	nosphørus
(1 Meter above bott	om horizontal sampler)
Time /	Preservative
	H ₂ SO ₄

		· · · · · · · · · · · · · · · · · · ·					
D.	D.O. and Temperature Profile						
Depth	Time	D.O.	Temperature				
(Meters)		(mg/L)	°C				
0,5 below surface	13:35:12	6.43	24,3				
1	13.39.31	6,39	24.3				
2	1 3.40:13	6.35	24.2				
3.2.5	1341:08	(3)	24.2				
4							
5							
6							
7			.				
8 -							
0.5 above bottom	13:41:5	C.31	24,2				

*If D.O. is below 5.0 mg/L notify agency and measure D.O. at 1.0 foot intervals if <5.0 mg/L.

Comments:



IMPOUNDMENT SAMPLING LOG
Water Quality Study Location <u> Wink(</u>
Hydroelectric Project – FERC #
Date: 8-14-17
Pre-Sampling Data:
HWL TWLCFS
Sample Location: 145 55, 74 4
Sample Location: $\underline{M4555,744}$ $W 90^{\circ}57,354$
Performed by: <u>Stine Haag</u>
Time: 13.50 Barometer: 198
Air Temp: 03 of Wind Speed: ENG 3mpH
Sky Conditions: 10070 clouds
Precipitation within Last 24 Hours: 4
D.O. Meter Calibration:
Instrument Model Used: HQ40D
Were the batteries changed? 🗖 Yes 👔 No
If yes, when were they changed:
Battery Status:% Charge
Calibration Method: Factory
Sampling Depth Profile: Measured depth to

· · · · · · · · · · · · · · · · · · ·				1	· · · · · · · · · · · · · · · · · · ·
	Secchi	Depth	(<u>+</u> 0.1)		-
Time 141,62	_		Feet	1,5	Meters

Comments:

	Chlorop	nyll a	
(1 Meter belo	ow surface	horiz	ontal sampler)
Time	Quantity	(ml)	Filtered
13:54	1000		ln Lab
Preservative		MgC	.O ₃
	• • • • • • • • • • • • •		

True Color (1 Meter below surface horizontal sampler) Time (3,54)

osphorus
ice horizontal sampler)
Preservative
H ₂ SO ₄

(1 Meter		I Phosphorus ottom horizontal sampler)
Time		Preservative
	and a state of the	H ₂ SO ₄
	THE WEAK	

		1	
D.	O. and Tem	perature F	Profile
Depth	Time	D.O.	Temperature
(Meters)		(mg/L)	° C
0.5 below	1000		
surface	13.53.12	6.99	20, 3
1	13.54:36	6.73	20,3
2	13:35:10	6,69	20.3
82,5	13:55.00	607	20,3
4			
5			
6			
7			
8			
0.5 above	17.764	6.66	20,3
bottom	13:56.47	V 46	2012

*If D.O. is below 5.0 mg/L notify agency and measure D.O. at 1.0 foot intervals if <5.0 mg/L.



Appendix D – Winter Hydroelectric Project Lab Reports and Chains of Custody



		Cover Page		
Client: RWE			WWA Job #: 68747	
Project: Date Received:	Monitoring 4/14/2017	Date Reported:	4/27/2017	_
Sample Number 68747-001	Client Sample ID Winter	Date Sampled 04/11/17	Sample Matrix Water	_



Cover Page..continued

Client: RWE

WWA Job #: 68747

Comments (if any):

Key to Laboratory Flags:

- *: RPD exceeds limits.
- B: The analyte was found in the associated blank as well as in the sample.
- J: The quantitation is an estimated value because the result is less than the sample quantitation limit but greater than the detection limit.
- M: A matrix effect was present.
- Q: Batch QC data associated with the analysis does not meet the stated objectives
- H: Indicates analytical holding time exceedance.
- U: The analyte was analyzed for, but not detected.
- P: A manual peak selection or manual integration was performed to correct an erroneous software selection.

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid) For coliform, Negative = No coliform bacteria detected, Positive = Coliform bacteria detected

Sample Types: S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without the written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and White Water Associates Standard Operating Procedures. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by White Water Associates management, as is verified by the following signature.

Approved By: Ims

WI DNR Lab Certification Number: 999971280 MI DEQ Certification Number: 9306 DoD-ELAP Accreditation Number: 65802 ISO/IEC 17025:2005 Accredited



Client: RWE					WWA Job	# : 68747		
Project:	Monitoring	<u></u>				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		. <u> </u>
Date Received:	4/14/2017		D	ate Reported:	5/5/2017			
		San	nple Re	sults				
Sample No. / ID /	Description / Ma	atrix Result	Flags	Units	Date	Method	MDL	MQL
68747-001 / Wint	ter / Water							
General Chemi	istry Parameters							
chlorophyll a		3.9		mg/m3	4/20/2017	10200H	NA	NA
Color		35		CU	4/1 4 /2017	2120B	5	5
Total Phosphore	us LL (t)	0.022	J	mg/L	4/19/2017	365.4	0.008	0.050

Job # (WWA office use):	c 20			Cŀ	141	N-O	F-C	ะบร	тоі	ר אכ	REC	COF	D							1						JGUTULIII 160504
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ADDRESS			TEL	EPHC	NE													1								
																	429 R Amas			.O. Box 49903	c 27					6) 822-7889, Fax -7977 -water-associates.com
CITY	STATE	ZIP	CON	ITRA	CT / F	PO / F	ROJ	ECT	NAME	E / W	SSN#	:				ANA	LYSIS	S TYP	E RE	QUES	TED	Attacl	h list i	f nee	eded	T
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			ater										Γ		ber c	19	X	0								REMARKS (Note any special
SAMPLE ID AND LOCATION Containers for each sample may be combined on one line.	DATE	TIME	Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	нсі	NaOH	ZnAc/NaOH	Na Thio	Total Number of Containers	Ch S	7-10	, CO								instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)
Winter	4-11-17	13:50		X				X	X						3	X	X	V								
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<u> </u>		Cover Page	
Client: RWE			WWA Job #: 70826
Project: Date Received:	Monitoring 7/21/2017	Date Reported:	9/21/2017
Sample Number 70826-001	Client Sample ID Winter	Date Sampled 07/18/17	Sample Matrix Water

WWA Job #: 70826



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Cover Page..continued

Client: RWE

Comments (if any):

Key to Laboratory Flags:

- *: RPD exceeds limits.
- B: The analyte was found in the associated blank as well as in the sample.
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- Q: Batch QC data associated with the analysis does not meet the stated objectives
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Sample Types: S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

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roma **Approved By:**

WI DNR Lab Certification Number: 999971280 MI DEQ Certification Number: 9306 DoD-ELAP Accreditation Number: 65802 ISO/IEC 17025:2005 Accredited



Client: RWE					WWA Jo	b #: 70826			
Project:	Monitoring				on an air air an Arban an		and a second		
Date Received:	7/21/2017			Date Repo	orted: 9/21/2017				
		Sa	mple	Results			<u> </u>		
Sample No. / ID /	Description / M	atrix Result	Flags	Units	Date/Time	Method	MDL	MQL	Analyst
70826-001 / Win	ter / Water								
General Chem	uistry Parameter	S							
chlorophyll a		3.1		mg/m3	8/10/2017 14:30	10200H	NA	NA	WS
Color		55		CU	7/21/2017 14:00	2120B	5	5	AH
Total Phosphoru	s LL (t)	0.033	J	mg/L	8/1/2017 10:25	365.4	0.008	0.050	NK

ANALYTICAL REPORT

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Cover Page							
Client: RWE			WWA Job #: 71381				
Project: Date Received:	Monitoring 8/17/2017	Date Reported:	9/14/2017				
Sample Number 71381-001	Client Sample ID Winter	Date Sampled 08/14/17	Sample Matrix Water				

WWA Job #: 71381



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Cover Page..continued

Client: RWE

Comments (if any):

Key to Laboratory Flags:

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Approved By:

WI DNR Lab Certification Number: 999971280 MI DEQ Certification Number: 9306 DoD-ELAP Accreditation Number: 65802 ISO/IEC 17025:2005 Accredited



Client: RWE					WWA Jo	b #: 71381									
Project:	Monitoring			- t- (n-)	an a										
Date Received:	8/17/2017			Date Reported: 9/14/2017											
<u> </u>		S	ample	Results			·····								
Sample No. / ID /	Description / N	Iatrix Resul	t Flags	Units	Date/Time	Method	MDL	MQL	Analyst						
71381-001 / Wiut	ter / surface / N	Water													
General Chemi	istry Parameter	'S													
chlorophyll a		2.8		mg/m3	9/7/2017 10:00	10200H	NA	NA	WS						
Color		40	Η	CU	8/17/2017 11:40	2120B	5	5	AH						
Total Phosphorus	s LL (t)	0.023	J	mg/L	8/18/2017 11:51	365.4	0.008	0.050	NK						

Job # (WWA office use):	7.17	Di		Cł	IAI	N-O	F-C	ะบร	TO	DY	RE	COF	RD							1						√(s	که (الا) الا Version 160504
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																			iver Lane, P.O. Box 27 Phone: (906) 822-7889, Fax -7977 a, Michigan 49903 Web: white-water-associates.com								
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Containers for each sample may be combined on one line.	DATE	TIME	Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	HGL Mg	NaOH	ZnAc/NaOH	Na Thio	Total Number of Containers	142	\mathcal{P}	Colo								conditions of WWA lab s	provided by client or of receipt noted by taff. Also note any ial chlorine.)
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Brian Kreuscher

From:	Brian Kreuscher
Sent:	Friday, November 17, 2017 8:43 AM
То:	Cheryl Laatsch; Nick Utrup; Sue Reinecke; Paul Strong; Dale Higgins
Subject:	Winter (P-2064) Draft Water Quality Report
Attachments:	Draft Report 2017 Winter Final WQ-Complete.pdf

All,

Attached is the Draft Water Quality Report for Winter. Please review and provide any comments you may have to me within 30 days for FERC submittal.

Thanks Brian Kreuscher Renewable World Energies Regulatory & Compliance 855-944-9376 x230

Brian Kreuscher

From:	Brian Kreuscher
Sent:	Friday, November 17, 2017 3:59 PM
То:	Cheryl Laatsch; Nick Utrup; Sue Reinecke; Paul Strong; Dale Higgins
Subject:	2017 Draft Water Quality Report
Attachments:	Draft Report 2017 Danbury Final WQ-Complete.pdf; Draft Report 2017 Flambeau Lower Final WQ-
	Complete.pdf; Draft Report 2017 Flambeau Upper Final WQ-Complete.pdf; Draft Report 2017 Pixley
	FInal WQ-Complete.pdf; Draft Report 2017 Winter Final WQ-Complete.pdf; Draft Report 2017 Clam
	River Final WQ-Complete.pdf; Draft Report 2017 Crowley Final WQ-Complete.pdf

All,

In previous emails I said we need comments within 30 days for the FERC submittal. Correction, we are to allow 60 days for you to comment on the Water Quality Reports before the FERC submittal is required on these projects:

Winter (P-2064)

Clam River (P-9185) Danbury (P-9184) Flambeau Upper (P-2640) Flambeau Lower (P-2421) Pixley (P-2395) Crowley (P-2473)

Sorry for the confusion, I have re-attached all reports noted for ease.

Thanks Brian Kreuscher Renewable World Energies Regulatory & Compliance 855-944-9376 x230