



January 31, 2018

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

**RE: Danbury Hydroelectric Project  
FERC Project Number 9184  
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 Danbury Hydroelectric Project. The Federal Energy Regulatory Commission "FERC" issued a License to Flambeau on September 5, 2006. This report is submitted as a requirement of that License pursuant to License Article 401 WQC, Condition K. 2017 was the eleventh year monitoring was conducted since the license was issued, but is the 6<sup>th</sup> year of submittal by RWE on the behalf of the Licensee.

Monitoring was conducted on April 12, July 19, and August 15, 2017. No unusual temperature or dissolved oxygen readings were observed in April or August, but in July the D.O. was below 5.0 mg/L at 14 feet. The draft report was sent to the agencies by an attachment to an email on November 17, 2017 for review and comment. As of the date of this letter no comments have been received pertaining to the Danbury project. The next scheduled monitoring event will be conducted in 2018.

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

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Sincerely,  
**Renewable World Energies, LLC**  
**Agent for Licensee**

A handwritten signature in black ink, appearing to read "Bj/km".

Handwritten initials "For" in black ink, positioned to the left of the typed name.

Mr. Jason Kreuzer  
Vice President, Operations

Attachment: Final Report 2017 Water Quality Monitoring Data  
Correspondence

Cc: Ms. Cheryl Laatsch, WDNR  
Mr. Nick Utrup, USFWS  
RWE, Corporate

# **Final Report**

2017 Water Quality Monitoring Data

for the

Danbury Hydroelectric Project

FERC Project #9184

Flambeau Hydro, LLC

Yellow River,  
Burnett County, Wisconsin

Respectfully Submitted by:

Angie Stine



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

Phone: 906-822-7889

## Summary Danbury Hydroelectric Project – FERC #9184

2017 marked the eleventh year of water quality sampling under FERC License issued on September 5, 2006 to Flambeau Hydro, LLC for the Danbury Hydroelectric Project – FERC Project # 9184 and specifically License Article 401 WQC, Condition K. Monitoring was conducted on April 12, July 19, and August 15, 2017. This document contains all of the associated records for the 2017 monitoring along with summary figures and tables in five appendices: (1) Appendix A (Figures 1-4), (2) Appendix B (Tables 1-3), (3) Appendix C (sampling logs by date), (4) Appendix D (laboratory reports and chains of custody), and (5) Appendix E (Agency Comments).

A map of the Danbury 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 in April or August but in July the D.O. was below 5.0 mg/L below 14 feet. 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 October, March, and September, and normal to high precipitation in the months of April, May, July, July, and August (Table 2).

Ice-Out occurred between Yellow River sometime during the week beginning April 3, 2017. The Ice-Out sampling event occurred on April 12, 2017. River flow, based on the Danbury Hydroelectric Project records, was approximately 123 cubic feet per second. Sampling occurred between 1240 and 1250. 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 Danbury Hydroelectric Project records, was approximately 233 cubic feet per second during the July 19, 2017 sampling event. Sampling occurred between 1230 and 1250. Samples were taken without incident. No unusual Temperature readings were observed but the D.O. was below 5.0 mg/L below 14 feet (4.87 to 4.99 mg/L). 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 Danbury Hydroelectric Project records, was approximately 267 cubic feet per second during the August 15, 2017 sampling event. Sampling occurred between 1245 and 1300. Samples were taken without incident. No unusual Temperature or D.O. readings were observed throughout the water column. 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 2016 (Table 3) sampling results are as follows:

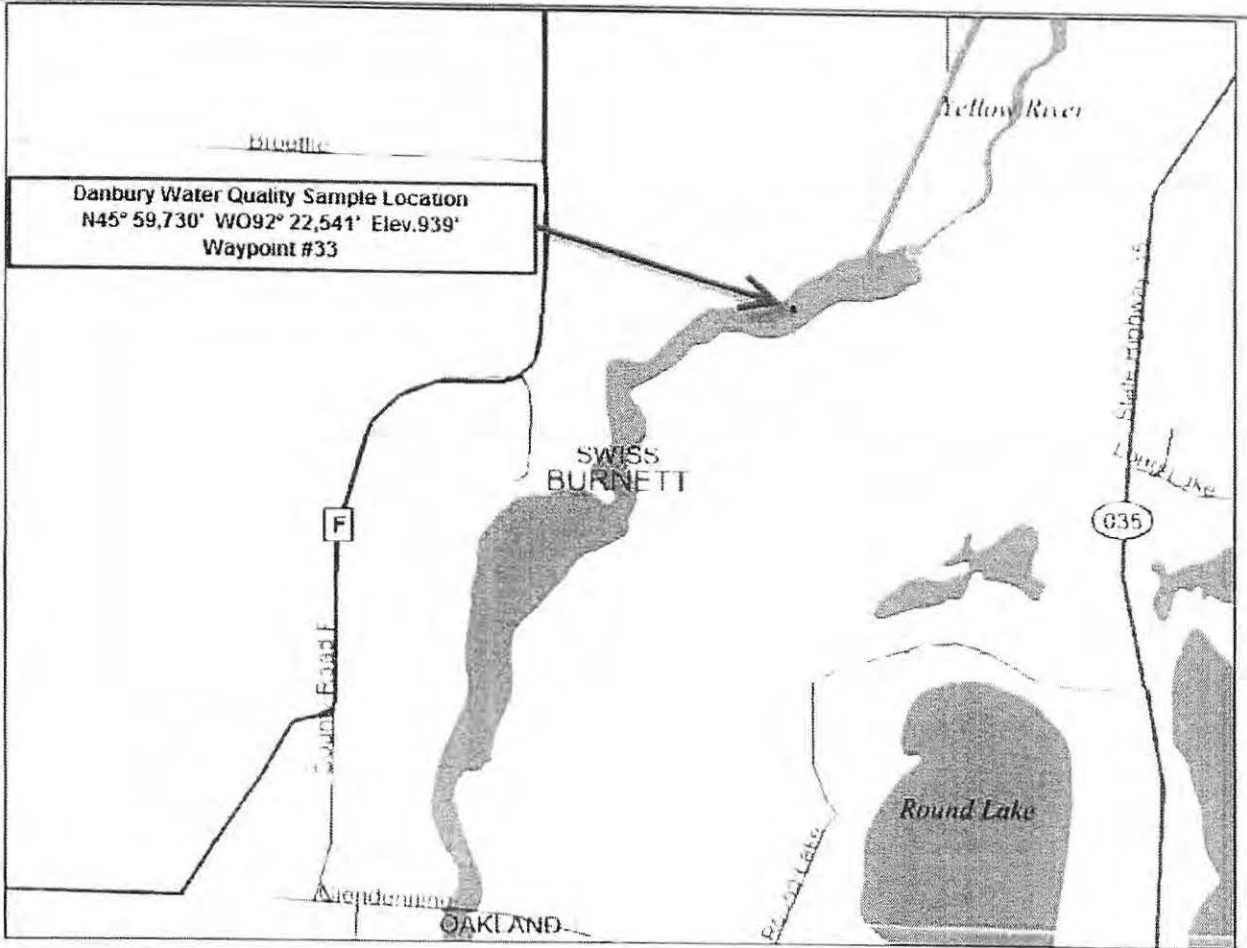
1. Water Clarity – Secchi Increased Ice Out, July & August
2. Chlorophyll  $a$  – Decreased Ice Out & July and Increased August
3. Color – Decreased Ice Out
4. Total Phosphorus – Decreased Ice Out and August, Increased July
5. Overall, D.O. –Decreased Ice Out and July, Increased August
6. Water Temperatures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

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

## **Appendix A - Danbury Hydroelectric Project Figures**

Figure 1. Danbury Hydroelectric Project Map (next page)

**Danbury Hydroelectric Project  
Water Quality Sampling Location  
FERC Project #9184**



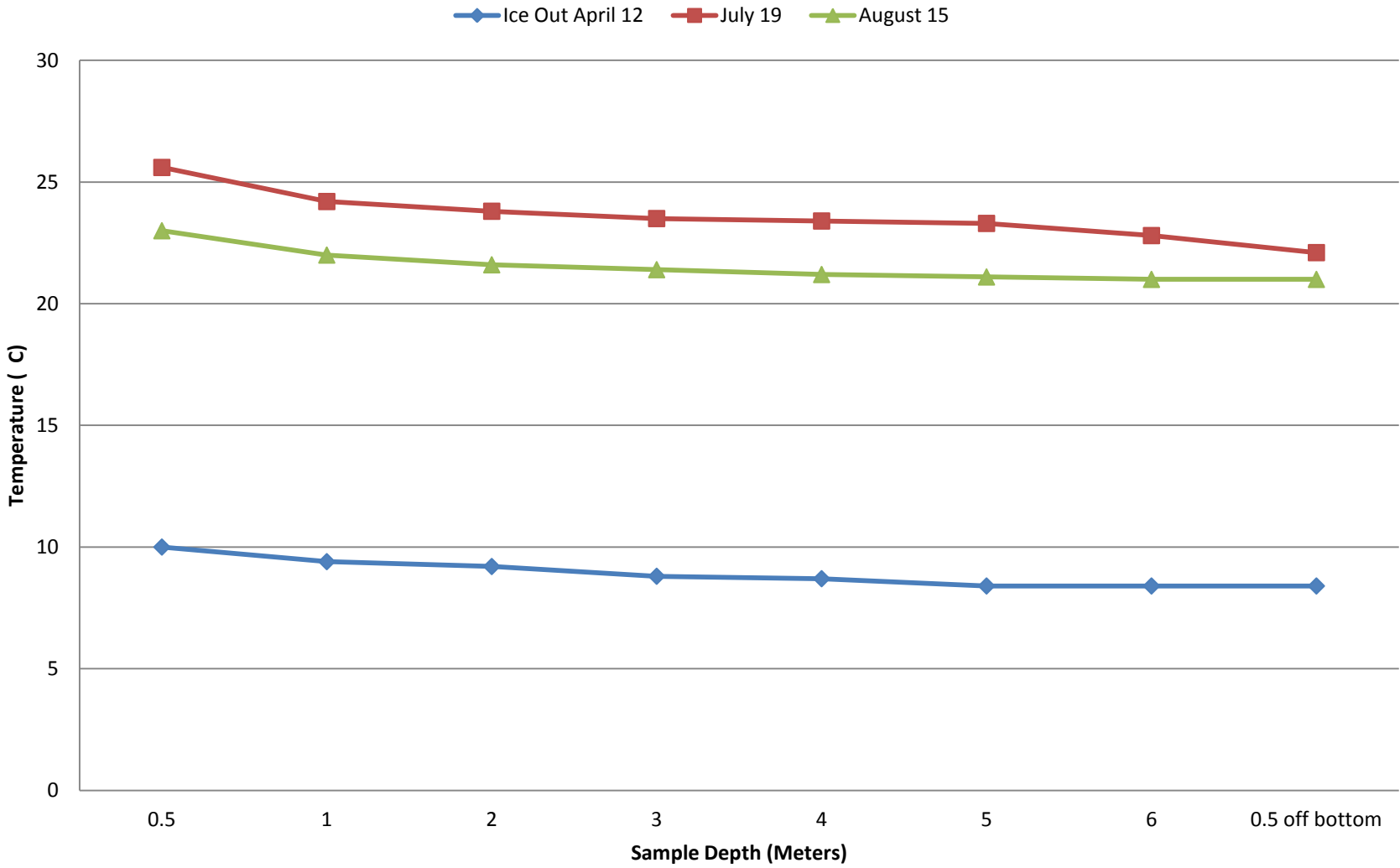
- Legend**
- Dams
  - Major Highways
  - Interstate
  - State Highway
  - U.S. Highways
  - County Roads
  - Local Roads
  - 24K County Boundaries
  - Civil Towns
  - Civil Town
  - 24K Open Water
  - 24K Rivers and Shorelines
  - Cities and Villages
  - Village
  - City

Scale: 1:14,043

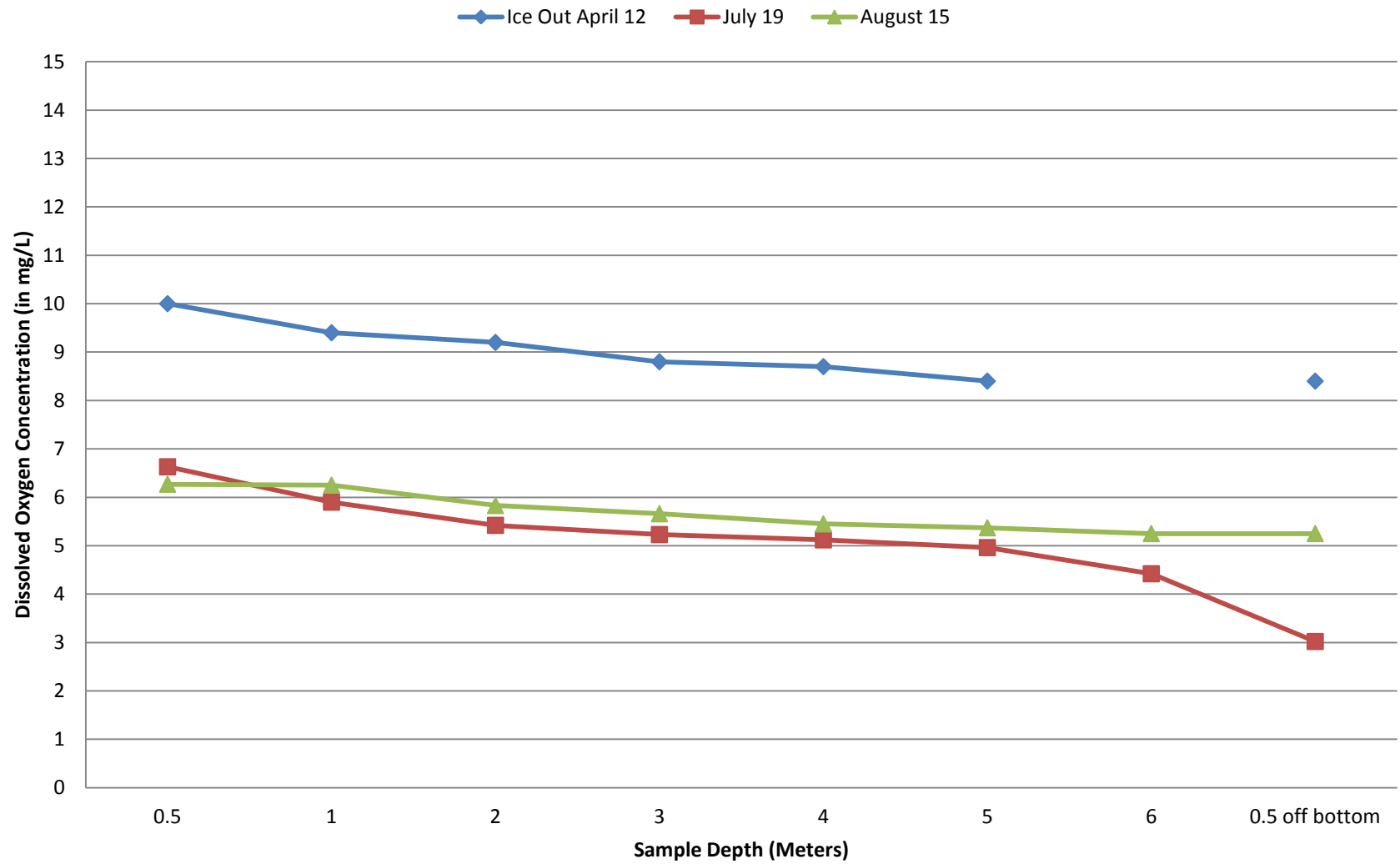
This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



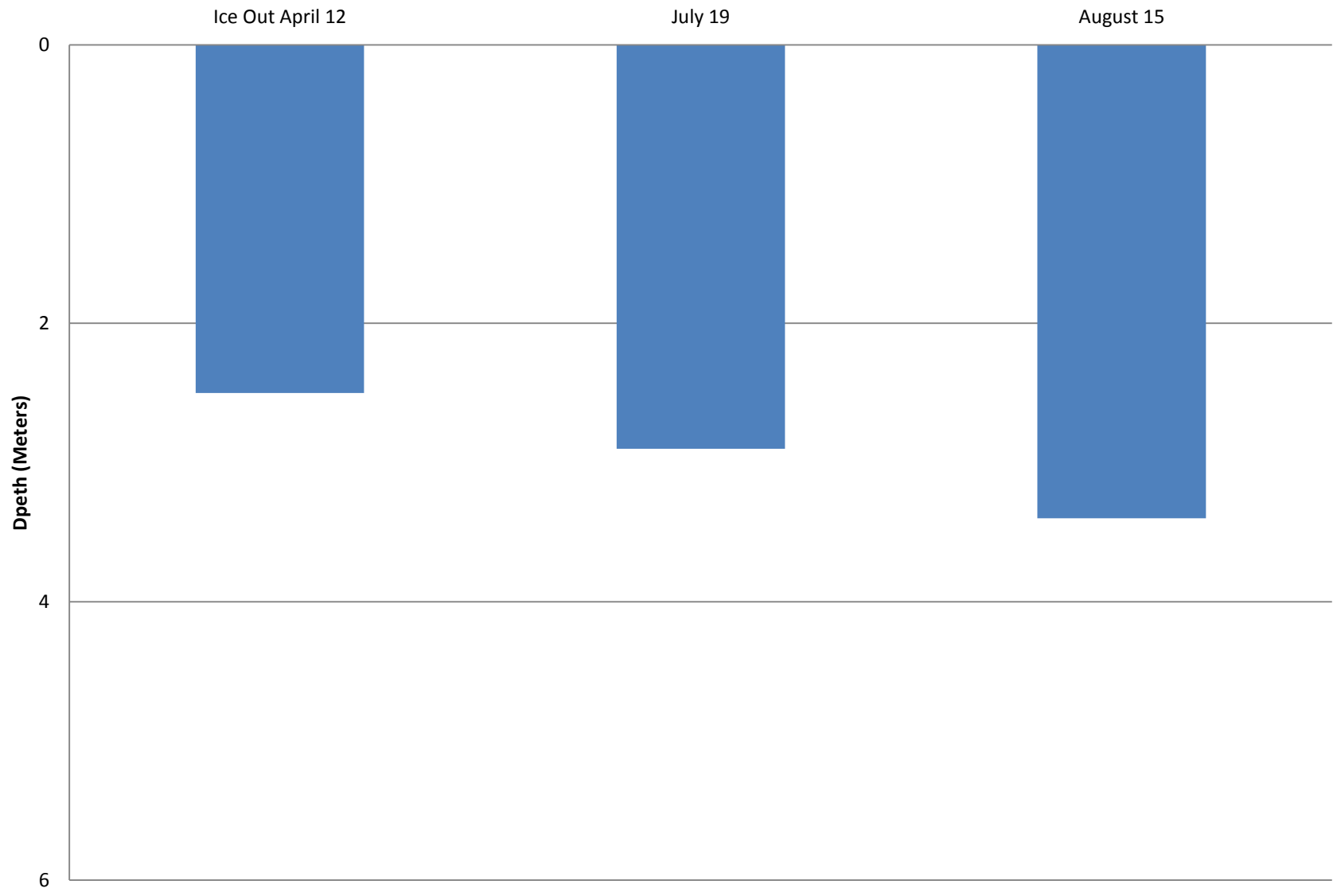
**Figure 2. Danbury Impoundment - FERC #9184  
2017 Temperature Samples**



**Figure 3. Danbury Impoundment- FERC #9184  
2017 Dissolved Oxygen Samples**



**Figure 4. Danbury Impoundement - FERC# 9184 Secchi Depth 2017**



## **Appendix B – Danbury Hydroelectric Project Tables**

Table 1. Danbury Hydroelectric Project – FERC Project # 9184: 2016 Water Quality Sampling Data

	Ice Out April 12, 2017			July 19, 2017			August 15, 2017		
<b>Project Flow (c.f.s)</b>	123			233			267		
<b>Dissolved Oxygen</b>	<b>Time</b>	<b>D.O. (mg/L)</b>	<b>Water Temp. (°C)</b>	<b>Time</b>	<b>D.O. (mg/L)</b>	<b>Water Temp. (°C)</b>	<b>Time</b>	<b>D.O. (mg/L)</b>	<b>Water Temp. (°C)</b>
0.5 meter below surface	14:51:21	12.57	3.7	12:43:44	6.63	25.6	12:54:44	6.27	23.0
1 meter below surface	14:52:06	12.60	3.6	12:44:46	5.90	24.2	12:55:21	6.25	22.0
2 meter below surface	14:52:46	16.64	3.5	12:45:45	5.42	23.8	12:56:05	5.83	21.6
3 meter below surface	14:53:12	12.63	3.5	12:46:13	5.23	23.5	12:56:37	5.66	21.4
4 meter below surface	14:54:09	12.62	3.4	12:46:57	5.12	23.4	12:57:21	5.45	21.2
5 meter below surface	14:54:50	12.59	3.4	12:47:00	4.96	23.3	12:57:57	5.37	21.1
6 meter below surface	N/A	N/A	N/A	12:48:00	4.42	22.8	12:59:07	5.25	21.0
0.5 meter above bottom	14:55:02	12.36	3.4	12:49:08	3.02	22.1	13:00:09	5.25	21.0
<b>Secchi Disk</b>	<b>Time</b>	<b>Depth (m)</b>		<b>Time</b>	<b>Depth (m)</b>		<b>Time</b>	<b>Depth (m)</b>	
Meters below surface	12:50	2.5		12:50	2.9		13:00	3.4	
<b>Chlorophyll <i>a</i></b>	<b>Time</b>	<b>µg/L</b>		<b>Time</b>	<b>µg/L</b>		<b>Time</b>	<b>µg/L</b>	
1 meter below surface	12:48	7.1		12:43	6.3		12:54	3.8	
<b>Color (True)</b>	<b>Time</b>	<b>C.P.U. Units</b>	<b>LOD</b>	<b>Time</b>	<b>C.P.U. Units</b>	<b>LOD</b>	<b>Time</b>	<b>C.P.U. Units</b>	<b>LOD</b>
1 meter below surface	12:44	10	5*	12:43	20	5*	12:54	15	5*
<b>Total Phosphorus</b>	<b>Time</b>	<b>mg/L</b>	<b>LOD</b>	<b>Time</b>	<b>mg/L</b>	<b>LOD</b>	<b>Time</b>	<b>mg/L</b>	<b>LOD</b>
1 meter below surface	12:44	0.010	0.008*	12:43	0.046	0.008*	12:54	0.029	0.008*
1 meter above bottom	12:42	0.012	0.008*	12:47	0.032	0.008*	12:56	0.027	0.008*

\*Considered Method Detection Limit N/A = Not Applicable

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

Month	Highest Temp.	Lowest Temp.	Average Temp.	Departure From Normal	Heating Degree Days	Normal Degree Days	Total Precip.	Total Snowfall	Normal Precip.	% of Normal 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

Source: NOAA/Duluth, MN

Table 3. Danbury Project Sampling Comparison Table: 2011 Thru Current Year

Year	Month	Secchi Depth	Chlorophyll <i>a</i>	Color (True)	Total Phosphorus	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	Above Bottom mg/L	mg/L	mg/L	° C	° C
2011	April	1.95	4.70	20.00	0.030	0.030	12.19	11.94	7.30	7.50
2012	April	2.80	1.70	25.00	0.030	*	11.93	12.69	10.30	10.60
2013	May	2.00	9.60	25.00	0.036	0.034	11.05	11.19	10.20	11.60
2014	June	2.00	5.50	30.00	0.026	0.026	10.42	10.62	7.90	8.70
2015	April	2.10	11.00	20.00	0.045	0.033	10.32	10.43	11.00	13.40
2016	March	2.23	9.50	15.00	0.020	0.020	12.36	12.64	3.40	3.70
2017	April	2.50	7.10	10.00	0.010	0.012	11.08	11.19	8.40	10.00
<b>Minimum</b>	March/April/June	1.95	1.70	10.00	0.010	0.012	10.32	10.43	3.40	3.70
<b>Maximum</b>	March/April/June	2.80	11.00	30.00	0.045	0.034	12.36	12.69	11.00	13.40
<b>Average</b>	March/April/June	2.23	7.01	20.71	0.028	0.026	11.34	11.53	8.36	9.36
2011	July	1.80	6.10	25.00	0.066	0.063	0.26	7.35	19.40	24.40
2012	July	1.90	6.90	40.00	0.062	0.061	2.96	7.04	26.10	26.70
2013	July	2.50	1.70	40.00	0.062	0.065	4.37	5.24	24.10	25.10
2014	July	2.20	3.30	50.00	0.044	0.044	6.85	20.80	7.86	22.00
2015	July	1.80	5.10	25.00	0.058	0.043	6.24	7.50	22.50	23.50
2016	July	2.38	10.00	20.00	0.022	0.022	5.72	6.77	25.30	27.50
2017	July	2.90	6.30	20.00	0.046	0.032	3.02	6.63	7.86	22.00
<b>Minimum</b>	July	1.80	1.70	20.00	0.022	0.022	0.26	5.24	7.86	22.00
<b>Maximum</b>	July	2.50	10.00	50.00	0.066	0.065	6.85	20.80	22.50	27.50
<b>Average</b>	July	2.10	5.52	33.33	0.052	0.050	4.40	9.12	25.30	24.87
2011	August	1.50	16.00	50.00	0.054	0.052	1.64	6.03	22.30	23.50
2012	August	2.65	40.00	0.06	0.056	0.056	5.44	6.06	21.40	22.00
2013	August	2.80	4.80	35.00	0.060	0.120	1.90	6.33	19.60	22.70
2014	August	1.60	4.50	50.00	0.063	0.052	4.20	5.18	23.40	24.20
2015	August	2.20	7.60	30.00	0.042	0.036	5.89	8.02	23.10	25.40
2016	August	3.02	5.20	20.00	0.037	0.040	2.18	4.15	24.70	26.80
2017	August	3.40	11.00	20.00	0.034	0.034	5.25	6.27	21.00	23.00
<b>Minimum</b>	August	1.50	4.50	0.06	0.037	0.036	1.64	4.15	19.60	22.00
<b>Maximum</b>	August	3.02	40.00	50.00	0.063	0.120	5.89	8.02	24.70	26.80
<b>Average</b>	August	2.30	13.02	30.84	0.052	0.059	3.54	5.96	22.42	24.10

\*no sample taken

## **Appendix C – Danbury Impoundment Project Sampling Logs**



# IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Danbury

Hydroelectric Project – FERC # 9184

Date: 4-12-2017

Pre-Sampling Data:

HWL 928.75 TWL Below gauge CFS 123

Sample Location: N45° 59.730'  
W92° 22.541'

Performed by:

A. Stine T. Plummer

Time: 12:40 Barometer: 30.3

Air Temp: 55 °F Wind Speed: ESE 6 mph

Sky Conditions: 100 clouds

Precipitation within Last 24 Hours: 0

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 bottom of impoundment: 5 Meters

Secchi Depth (± 0.1)	
Time <u>12:50</u>	<u>82</u> Feet <u>25</u> Meters

Comments:

Photo 3712 - Township Stream

5 Wood Ducks

2 Abundant muskrats

Chlorophyll a (1 Meter below surface horizontal sampler)		
Time	Quantity (ml)	Filtered
<u>12:48</u>	<u>1000</u>	<u>In Lab</u>
Preservative		<u>MgCO<sub>3</sub></u>

True Color (1 Meter below surface horizontal sampler)	
Time <u>12:44</u>	_____

Total Phosphorus (1 Meter below surface horizontal sampler)	
Time <u>12:44</u>	Preservative
	<u>H<sub>2</sub>SO<sub>4</sub></u>

Total Phosphorus (1 Meter above bottom horizontal sampler)	
Time <u>12:42</u>	Preservative
	<u>H<sub>2</sub>SO<sub>4</sub></u>

D.O. and Temperature Profile			
Depth (Meters)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	<u>12:10:03</u>	<u>11.08</u>	<u>10.0</u>
1	<u>12:40:40</u>	<u>11.12</u>	<u>9.4</u>
2	<u>12:41:25</u>	<u>11.18</u>	<u>9.2</u>
3	<u>12:42:09</u>	<u>11.19</u>	<u>8.8</u>
4	<u>12:42:33</u>	<u>11.19</u>	<u>8.7</u>
5	<u>12:43:29</u>	<u>11.18</u>	<u>8.4</u>
6			
7			
8			
0.5 above bottom	<u>12:45:14</u>	<u>11.12</u>	<u>8.4</u>

\*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.



# IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Danbury

Hydroelectric Project - FERC # 9184

Date: 7-19-2017

Pre-Sampling Data:

HWL 929.35 TWL 899 CFS 233

Sample Location: N45° 59.730'

W92.22.541'

Performed by: Stina Tracy

Time: 12:30 Barometer: 30.1

Air Temp: 81 °F Wind Speed: SSE 7 mph

Sky Conditions: 75% clouds

Precipitation within Last 24 Hours: yes

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed?  Yes  No

If yes, when were they changed: \_\_\_\_\_

Battery Status: 75 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: \_\_\_\_\_ Meters

Secchi Depth (+ 0.1)	
Time <u>12:50</u>	<u>8</u> Feet <u>2.9</u> Meters

Comments: 9 feet mje  
twr

Chlorophyll a (1 Meter below surface horizontal sampler)		
Time	Quantity (ml)	Filtered
<u>12:43</u>	1000	In Lab
Preservative		MgCO <sub>3</sub>

True Color (1 Meter below surface horizontal sampler)	
Time	<u>12:43</u>

Total Phosphorus (1 Meter below surface horizontal sampler)	
Time <u>12:43</u>	Preservative
	H <sub>2</sub> SO <sub>4</sub>

Total Phosphorus (1 Meter above bottom horizontal sampler)	
Time <u>12:47</u>	Preservative
	H <sub>2</sub> SO <sub>4</sub>

D.O. and Temperature Profile			
Depth (Meters)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	<u>12:43.44</u>	<u>6.63</u>	<u>25.6</u>
1	<u>12:44.46</u>	<u>5.90</u>	<u>24.2</u>
2	<u>12:45.45</u>	<u>5.42</u>	<u>23.8</u>
3	<u>12:46.13</u>	<u>5.23</u>	<u>23.5</u>
4	<u>12:46.57</u>	<u>5.12</u>	<u>23.4</u>
5	<u>12:47.0</u>	<u>4.96</u>	<u>23.3</u>
6.5.5	<u>12:48</u>	<u>4.42</u>	<u>22.8</u>
7			
8			
0.5 above bottom	<u>12:48.08</u>	<u>3.02</u>	<u>22.1</u>

\*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.



7-19-17  
Danbury

*D.O. and Temperature Profile			
Depth (Feet)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	12.50.12	6.34	24.1
1	12.52.07	6.01	24.0
2	12.52.57	6.25	24.2
3	12.53.34	5.98	24.0
4	12.54.30	5.88	23.9
5	12.55.04	5.65	23.6
6	12.55.30	5.53	23.5
7	12.55.59	5.44	23.4
8	12.56.29	5.34	23.4
9	12.56.53	5.33	23.3
10	12.57.24	5.25	23.3
11	12.57.48	5.19	23.3
12	12.58.07	5.17	23.3
13	12.58.56	5.12	23.2
14	12.59.31	5.04	23.2
15	12.59.57	4.99	23.2
16	13.00.24	4.94	23.1
17	13.00.50	4.90	23.1
18	13.01.18	4.72	23.0
19	13.01.50	4.87	23.1
20			
21			
22			
23			
24			
25			
0.5 above bottom			

Emailed Dean + Jason

1:18 p.m.  
The Do profile

AS

Bottom

0.5  
Above bottom

# IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Danbury

Hydroelectric Project - FERC # 9184

Date: 8-15-17

Pre-Sampling Data:

HWL 929.18 TWL 889.30 CFS 20.7

Sample Location: N45° 59.730'  
W42 22.511'

Performed by: Shine Hoag

Time: 12:45 Barometer: 30

Air Temp: 76 °F Wind Speed: 4 mph

Sky Conditions: 25% clouds

Precipitation within Last 24 Hours: yes

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed?  Yes  No

If yes, when were they changed: \_\_\_\_\_

Battery Status: 75 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 5.8 Meters

Secchi Depth ( $\pm 0.1$ )	
Time <u>13:00</u>	Feet <u>3.4</u> Meters

Comments:

2 blueberry painted turtles

Chlorophyll $a$ (1 Meter below surface horizontal sampler)		
Time <u>12:51</u>	Quantity (ml)	Filtered
	1000	In Lab
Preservative	MgCO <sub>3</sub>	

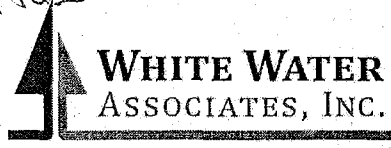
True Color (1 Meter below surface horizontal sampler)	
Time <u>12:54</u>	

Total Phosphorus (1 Meter below surface horizontal sampler)	
Time <u>12:54</u>	Preservative
	H <sub>2</sub> SO <sub>4</sub>

Total Phosphorus (1 Meter above bottom horizontal sampler)	
Time <u>12:56</u>	Preservative
	H <sub>2</sub> SO <sub>4</sub>

D.O. and Temperature Profile			
Depth (Meters)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	<u>12:51:44</u>	<u>6.27</u>	<u>23.0</u>
1	<u>12:55:21</u>	<u>6.25</u>	<u>22.0</u>
2	<u>12:56:05</u>	<u>5.83</u>	<u>21.6</u>
3	<u>12:56:37</u>	<u>5.66</u>	<u>21.4</u>
4	<u>12:57:21</u>	<u>5.45</u>	<u>21.2</u>
5	<u>12:57:57</u>	<u>5.37</u>	<u>21.1</u>
6.8	<u>12:59:07</u>	<u>5.25</u>	<u>21.0</u>
7			
8			
0.5 above bottom	<u>13:00:09</u>	<u>5.25</u>	<u>21.0</u>

\*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 – Danbury Hydroelectric Project Lab Reports and Chains of Custody**



# WHITE WATER ASSOCIATES, INC.

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

## Cover Page

---

**Client:** RWE

**WWA Job #:** 68748

---

**Project:** Monitoring

**Date Received:** 4/14/2017

**Date Reported:** 4/27/2017

---

<b>Sample Number</b>	<b>Client Sample ID</b>	<b>Date Sampled</b>	<b>Sample Matrix</b>
68748-001	Clam River	04/12/17	Water
68748-002	Clam River	04/12/17	Water
68748-003	Danbury	04/12/17	Water
68748-004	Danbury	04/12/17	Water



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**Cover Page..continued**

---

**Client:** RWE

**WWA Job #:** 68748

---

**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:**

---

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



# WHITE WATER ASSOCIATES, INC.

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 68748

Project: Monitoring

Date Received: 4/14/2017

Date Reported: 5/5/2017

## Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date	Method	MDL	MQL
<b>68748-001 / Clam River / Surface / Water</b>							
<b>General Chemistry Parameters</b>							
chlorophyll a	15		mg/m3	4/20/2017	10200H	NA	NA
Color	10		CU	4/14/2017	2120B	5	5
Total Phosphorus LL (t)	0.024	J	mg/L	4/19/2017	365.4	0.008	0.050
<b>68748-002 / Clam River / Bottom / Water</b>							
<b>General Chemistry Parameters</b>							
Total Phosphorus LL (t)	0.025	J	mg/L	4/19/2017	365.4	0.008	0.050
<b>68748-003 / Danbury / Surface / Water</b>							
<b>General Chemistry Parameters</b>							
chlorophyll a	7.1		mg/m3	4/20/2017	10200H	NA	NA
Color	10		CU	4/14/2017	2120B	5	5
Total Phosphorus LL (t)	0.010	J	mg/L	4/19/2017	365.4	0.008	0.050
<b>68748-004 / Danbury / Bottom / Water</b>							
<b>General Chemistry Parameters</b>							
Total Phosphorus LL (t)	0.012	J	mg/L	4/19/2017	365.4	0.008	0.050

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)



Job # (WWA office use): 68748

CHAIN-OF-CUSTODY RECORD



**WHITE WATER ASSOCIATES, INC.**

429 River Lane, P.O. Box 27  
Amasa, Michigan 49903  
Phone: (906) 822-7889, Fax -7977  
Web: white-water-associates.com

CLIENT NAME / BILL TO <b>RWE</b>			EMAIL ADDRESS		
ADDRESS			TELEPHONE		
CITY	STATE	ZIP	CONTRACT / PO / PROJECT NAME / WSSN# <b>Monitoring</b>		

SAMPLER NAME (print first/last name) <b>Angie Strie</b>		COUNTY OF LOCATION	PAGE <b>1</b> OF <b>1</b> <small>Indicate if more than one page of COC records used</small>
SAMPLER'S SIGNATURE <i>[Signature]</i>		Check off preservatives for each bottle upon arrival and indicate total number of bottles. WWA database contains bottle preservation details.	

SAMPLE ID AND LOCATION <small>Containers for each sample may be combined on one line.</small>	DATE	TIME	SAMPLE MATRIX											Total Number of Containers			
			Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Na Thio		
1 Clam River Surface	4-12-17	10:46		X					X	X							3
2 Clam River Bottom	4-12-17	10:43							no								1
3 Danbury Surface	4-12-17	12:48							X								3
4 Danbury Bottom	4-12-17	12:42							no								1

ANALYSIS TYPE REQUESTED (Attach list if needed)											
<b>Chl a (mg/L)</b>											
<b>T Phos</b>											
<b>Color</b>											

Instructions to White Water  
Send my report by:  
\_\_\_ email  
\_\_\_ mail

Unless otherwise noted, drinking water report copies are sent to MDEQ and Health Dept.

REMARKS (Note any special instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Comments/Sample temp. on receipt:	Packing: Ice <input checked="" type="checkbox"/> Cooler <input checked="" type="checkbox"/>
<i>[Signature]</i>	4-13-17	5:34 pm	<i>[Signature]</i>	4-4-17	1052	2.7	



# WHITE WATER ASSOCIATES, INC.

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

## Cover Page

---

**Client:** RWE

**WWA Job #:** 70827

---

**Project:** Monitoring

**Date Received:** 7/21/2017

**Date Reported:** 9/21/2017

---

<b>Sample Number</b>	<b>Client Sample ID</b>	<b>Date Sampled</b>	<b>Sample Matrix</b>
70827-001	Clam River	07/19/17	Water
70827-002	Clam River	07/19/17	Water
70827-003	Danbury	07/19/17	Water
70827-004	Danbury	07/19/17	Water



# WHITE WATER ASSOCIATES, INC.

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## Cover Page..continued

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**Client:** RWE

**WWA Job #:** 70827

---

**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:**

---

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



# WHITE WATER ASSOCIATES, INC.

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 70827

Project: Monitoring

Date Received: 7/21/2017

Date Reported: 9/21/2017

## Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date/Time	Method	MDL	MQL	Analyst
<b>70827-001 / Clam River / Surface / Water</b>								
<b>General Chemistry Parameters</b>								
chlorophyll a	15		mg/m3	8/10/2017 14:30	10200H	NA	NA	WS
Color	25		CU	7/21/2017 14:00	2120B	5	5	AH
Total Phosphorus LL (t)	0.033	J	mg/L	8/1/2017 10:28	365.4	0.008	0.050	NK
<b>70827-002 / Clam River / Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.075		mg/L	8/1/2017 10:29	365.4	0.008	0.050	NK
<b>70827-003 / Danbury / Surface / Water</b>								
<b>General Chemistry Parameters</b>								
chlorophyll a	6.3		mg/m3	8/10/2017 14:30	10200H	NA	NA	WS
Color	20		CU	7/21/2017 14:00	2120B	5	5	AH
Total Phosphorus LL (t)	0.046	J	mg/L	8/1/2017 10:30	365.4	0.008	0.050	NK
<b>70827-004 / Danbury / Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.032	J	mg/L	8/1/2017 10:30	365.4	0.008	0.050	NK

Job # (WWA office use): **70827**

**CHAIN-OF-CUSTODY RECORD**



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

Phone: (906) 822-7889, Fax -7977  
Web: white-water-associates.com

CLIENT NAME / BILL TO <b>RWE</b>			EMAIL ADDRESS													
ADDRESS			TELEPHONE													
CITY	STATE	ZIP	CONTRACT / PO / PROJECT NAME / WSSN# <b>Monitoring</b>													
SAMPLER NAME (print first/last name) <b>Ami Stri</b>			COUNTY OF LOCATION							PAGE <b>101</b> OF <b>3</b> <small>Indicate if more than one page of COC records used</small>						
SAMPLER'S SIGNATURE <i>[Signature]</i>			Check off preservatives for each bottle upon arrival and indicate total number of bottles. WWA database contains bottle preservation details.													
SAMPLE ID AND LOCATION <small>Containers for each sample may be combined on one line.</small>	DATE	TIME	SAMPLE MATRIX					CONTAINERS / PRESERVATIVES								Total Number of Containers
			Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Na Thio		

ANALYSIS TYPE REQUESTED (Attach list if needed)														
												<i>Chloride (Cl<sub>2</sub>)</i>	<i>T Phos</i>	<i>Color</i>

Instructions to White Water  
Send my report by:  
 email  
 mail

Unless otherwise noted, drinking water report copies are sent to MDEQ and Health Dept.

REMARKS (Note any special instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)

<b>1</b> Clam River Surface	7-19-17	10:15		X					X	X						3	X	X	X
<b>2</b> Clam River Bottom	"	10:18														1		X	
<b>3</b> Danbury Surface	"	12:43							X							3	X	X	X
<b>4</b> Danbury Bottom	"	12:44														1		X	

Relinquished by: <i>[Signature]</i>	Date: 7-20-17	Time: 5:03pm	Received by:	Date:	Time:	Comments/Sample temp. on receipt: <b>3.5</b>	Packing: Ice Cooler <input checked="" type="checkbox"/>
Relinquished by:	Date:	Time:	Received by: <i>[Signature]</i>	Date: 7-21-17	Time: 10:48		



# WHITE WATER ASSOCIATES, INC.

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

## Cover Page

---

**Client:** RWE

**WWA Job #:** 71380

---

**Project:** Monitoring

**Date Received:** 8/17/2017

**Date Reported:** 9/14/2017

---

<b>Sample Number</b>	<b>Client Sample ID</b>	<b>Date Sampled</b>	<b>Sample Matrix</b>
71380-001	Clam River	08/15/17	Water
71380-002	Clam River	08/15/17	Water
71380-003	Danbury	08/15/17	Water
71380-004	Danbury	08/15/17	Water



# WHITE WATER ASSOCIATES, INC.

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

## Cover Page..continued

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Client: RWE

WWA Job #: 71380

---

**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.

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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: \_\_\_\_\_

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



# WHITE WATER ASSOCIATES, INC.

429 River Lane • PO Box 27 Amasa, MI 49903 • Ph (906) 822-7889 • Fax -7977

Client: RWE

WWA Job #: 71380

Project: Monitoring

Date Received: 8/17/2017

Date Reported: 9/14/2017

## Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date/Time	Method	MDL	MQL	Analyst
<b>71380-001 / Clam River / Surface / Water</b>								
<b>General Chemistry Parameters</b>								
chlorophyll a	11		mg/m3	9/7/2017 10:00	10200H	NA	NA	WS
Color	20	H	CU	8/17/2017 11:40	2120B	5	5	AH
Total Phosphorus LL (t)	0.034	J	mg/L	8/18/2017 11:48	365.4	0.008	0.050	NK
<b>71380-002 / Clam River / Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.034	J	mg/L	8/18/2017 11:49	365.4	0.008	0.050	NK
<b>71380-003 / Danbury / Surface / Water</b>								
<b>General Chemistry Parameters</b>								
chlorophyll a	3.8		mg/m3	9/7/2017 10:00	10200H	NA	NA	WS
Color	15		CU	8/17/2017 11:40	2120B	5	5	AH
Total Phosphorus LL (t)	0.029	J	mg/L	8/18/2017 11:50	365.4	0.008	0.050	NK
<b>71380-004 / Danbury / Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.027	J	mg/L	8/18/2017 11:50	365.4	0.008	0.050	NK



Job # (WWA office use): 71380

CHAIN-OF-CUSTODY RECORD

J. G. 8/16/17  
Version  
160504



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

Phone: (906) 822-7889, Fax -7977  
Web: white-water-associates.com

CLIENT NAME / BILL TO <b>RWE</b>			EMAIL ADDRESS		
ADDRESS			TELEPHONE		
CITY	STATE	ZIP	CONTRACT / PO / PROJECT NAME / WSSN# <b>Monitoring</b>		
SAMPLER NAME (print first/last name) <b>Angie Stine</b>		COUNTY OF LOCATION	PAGE <b>1 OF 1</b> <small>Indicate if more than one page of COC records used</small>		

SAMPLER'S SIGNATURE <b>[Signature]</b>			Check off preservatives for each bottle upon arrival and indicate total number of bottles. WWA database contains bottle preservation details.										
SAMPLE ID AND LOCATION <small>Containers for each sample may be combined on one line.</small>	DATE	TIME	SAMPLE MATRIX					CONTAINERS / PRESERVATIVES					Total Number of Containers
			Drinking water	Aqueous	Sed.	Soil	Other:	None	H2SO4	HNO3	HCl	NaOH	

ANALYSIS TYPE REQUESTED (Attach list if needed)									
<b>chl a</b>	<b>TANOS</b>	<b>color</b>							

Instructions to White Water  
Send my report by:  
 email  
 mail

Unless otherwise noted, drinking water report copies are sent to MDEQ and Health Dept.

REMARKS (Note any special instructions provided by client or conditions of receipt noted by WWA lab staff. Also note any residual chlorine.)

1	Clam River Surface	8-15-17	10:28		X					X	X					3	X	X	X
2	" Bottom	"	10:26							X						1		X	
3	Dubury Surface	"	12:54							X						3	X	X	X
4	" Bottom	"	12:56							X						1		X	

Relinquished by: <b>[Signature]</b>	Date: <b>8-16-17</b>	Time: <b>16:47</b>	Received by: <b>[Signature]</b>	Date: <b>8-17-17</b>	Time: <b>830</b>
--	-------------------------	-----------------------	------------------------------------	-------------------------	---------------------

Comments/Sample temp. on receipt: **1**

Packing: Ice   
Cooler

## **Appendix E – Agency Comments**

**From:** [Laatsch, Cheryl - DNR](#)  
**To:** [Brian Kreuzer;](#)  
**Subject:** FW: Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports  
**Date:** Tuesday, December 05, 2017 3:55:23 PM  
**Attachments:** [image001.gif](#)  
[image002.gif](#)  
[image003.gif](#)  
[image004.gif](#)  
[image005.gif](#)  
[image006.gif](#)

---

See the comments below.

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Cheryl Laatsch  
Statewide FERC Coordinator  
Bureau of Environmental Analysis and Sustainability  
Wisconsin Dept of Natural Resources  
N7725 Hwy 28  
Horicon WI 53032  
(T) 920-387-7869 (Fax) 920-387-7888  
[Cheryl.laatsch@wisconsin.gov](mailto:Cheryl.laatsch@wisconsin.gov)



---

**From:** Roesler, Craig P - DNR  
**Sent:** Friday, December 01, 2017 3:11 PM  
**To:** Laatsch, Cheryl - DNR <[Cheryl.Laatsch@wisconsin.gov](mailto:Cheryl.Laatsch@wisconsin.gov)>; Toshner, Pamela J - DNR <[Pamela.Toshner@wisconsin.gov](mailto:Pamela.Toshner@wisconsin.gov)>  
**Subject:** RE: Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports

In the Clam River document, figure 1 shows a “new” sampling location and a second sampling location (the old one). The sampling location was changed a few years ago at our request. It would be good to indicate in figure 1 the year that sampling switched over to the new station.

---

**From:** Laatsch, Cheryl - DNR  
**Sent:** Monday, November 27, 2017 12:33 PM

**To:** Roesler, Craig P - DNR <[Craig.Roesler@wisconsin.gov](mailto:Craig.Roesler@wisconsin.gov)>; Toshner, Pamela J - DNR <[Pamela.Toshner@wisconsin.gov](mailto:Pamela.Toshner@wisconsin.gov)>

**Subject:** FW: Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports

Hi folks – here are the draft WQ reports for Danbury and Clam River FERC projects. Please review and let me know if you have any questions, concerns, or recommendations for changes to sampling. The final reports will be sent to CO for entry into the SWIMS database.

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Cheryl Laatsch  
Statewide FERC Coordinator  
Bureau of Environmental Analysis and Sustainability  
Wisconsin Dept of Natural Resources  
N7725 Hwy 28  
Horicon WI 53032  
(T) 920-387-7869 (Fax) 920-387-7888  
[Cheryl.laatsch@wisconsin.gov](mailto:Cheryl.laatsch@wisconsin.gov)



---

**From:** Brian Kreuzscher [<mailto:bkreuscher@rwehydro.com>]

**Sent:** Friday, November 17, 2017 8:53 AM

**To:** Laatsch, Cheryl - DNR <[Cheryl.Laatsch@wisconsin.gov](mailto:Cheryl.Laatsch@wisconsin.gov)>; Nick Utrup <[nick\\_utrup@fws.gov](mailto:nick_utrup@fws.gov)>

**Subject:** Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports

Cheryl and Nick,

Attached are the Draft Water Quality Reports for Danbury and Clam River. Please review and provide any comments you may have to me within 30 days for FERC submittal.

Thanks

Brian Kreuzscher

Renewable World Energies  
Regulatory & Compliance  
855-944-9376 x230

## Brian Kreuscher

---

**From:** Brian Kreuscher  
**Sent:** Friday, November 17, 2017 8:53 AM  
**To:** Cheryl Laatsch; Nick Utrup  
**Subject:** Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports  
**Attachments:** Draft Report 2017 Danbury Final WQ-Complete.pdf; Draft Report 2017 Clam River Final WQ-Complete.pdf

Cheryl and Nick,

Attached are the Draft Water Quality Reports for Danbury and Clam River. 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  
**To:** 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

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