



February 20, 2019

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

**RE: Clam River Hydroelectric Project  
FERC Project Number 9185  
Flambeau Hydro LLC  
Final Report 2018 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 2018 Water Quality Monitoring Data* for the Clam River Hydroelectric Project. The Federal Energy Regulatory Commission "FERC" issued a License to Flambeau on July 24, 2006. This report is submitted as a requirement of that License pursuant to License Article 401 WQC, Condition K. 2018 was the 11<sup>th</sup> year monitoring was conducted since the license was issued, but is the 7<sup>th</sup> year of submittal by RWE on the behalf of the Licensee.

Monitoring was conducted on May 8, July 17, and August 20, 2018. No unusual temperature or dissolved oxygen readings were observed in April or July, but in July the D.O. was below 5.0 mg/L at 18 feet and in August the D.O. was below 5.0 mg/L at 4 feet. The draft report was sent to the agencies by an attachment to an email on December 5, 2018 for review and comment. No comments were received relating to the Clam River report. The next scheduled monitoring event will be conducted in 2019.

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 [bkreusch@rwehydro.com](mailto:bkreusch@rwehydro.com).

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

A handwritten signature in black ink, appearing to read "J. Kreuzscher".

 Mr. Jason Kreuzscher  
Vice President, Operations

Attachment: Final Report 2018 Water Quality Monitoring Data  
Correspondence

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

# Report

2018 Water Quality Monitoring Data  
(Per License Article 401 WQC, Condition K)

for the

Clam River Hydroelectric Project

FERC Project #9185

Flambeau Hydro, LLC

Clam River,  
Burnett County, Wisconsin

Respectfully Submitted by:

Angie Stine



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

Phone: 906-822-7889

## Summary Clam River Hydroelectric Project – FERC #9185

2018 marked the eleventh year of water quality sampling under FERC License issued on July 24, 2006 to Flambeau Hydro, LLC for the Clam River Hydroelectric Project – FERC Project # 9185 and specifically Appendix A Section 401 K. Monitoring was conducted on May 8, July 17, and August 20, 2018. This document contains all of the associated records for the 2018 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 Clam River Hydroelectric Project is shown in Figure 1 indicating the water quality sampling location.

Monitoring results for 2018 are shown in Table 1. No unusual Temperature (Figure 2) or Dissolved Oxygen (Figure 3) readings were observed in May or July but in July the D.O. was below 5.0 mg/L at 18 feet and in August the D.O. was below 5.0 mg/L at 4 feet. The Secchi depths are shown in Figure 4.

In general, the weather (temperature and rainfall) during 2018 monitoring season appeared slightly warmer in May, June, and July, & August, with lower than normal precipitation in November, December, January, February, March, April and June, and normal to high precipitation in the months of October, February, June, July, and August (Table 2).

Ice-Out occurred on the Clam River sometime during the week beginning May 1, 2018. The Ice-Out sampling event occurred on May 8, 2018. River flow, based on the Clam River Hydroelectric Project records, was approximately 719 cubic feet per second. Sampling occurred between 11:00 a.m. and 11:20 a.m. 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 May 9, 2018. White Water Associates, Inc. issued a laboratory report on June 5, 2018. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on the Clam River Hydroelectric Project records, was approximately 293 cubic feet per second during the July 17, 2018 sampling event. Sampling occurred between 11:34 a.m. and 11:45 a.m. Samples were taken without incident. No unusual Temperature readings were observed. The D.O. went below 5.00 mg/L at 18.0 feet (4.64 mg/L). The 0.5 ft above bottom D.O. was 0.07 mg/L. Samples for laboratory analysis were delivered to White Water Associates, Inc. laboratory in Amasa, MI on July 18, 2018. White Water Associates, Inc. issued a laboratory report on August 6, 2018. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on the Clam River Hydroelectric Project records, was approximately 156 cubic feet per second during the August 20, 2018 sampling event. Sampling occurred between 9:35 a.m. and 9:54 a.m. Samples were taken without incident. No unusual Temperature readings were observed. The D.O. went below 5.00 mg/L at 4 feet (4.89 mg/L). The 0.5 ft above bottom D.O. was 0.07 mg/L. Samples for laboratory analysis were delivered to White Water Associates, Inc. laboratory in Amasa, MI on August

22, 2018. White Water Associates, Inc. issued a laboratory report on September 4, 2018. No unusual levels of Chlorophyll *a*, True Color, or Total Phosphorus were noted in the laboratory reports.

A summary of a comparison between the 2012 thru 2018 (Table 3) sampling results are as follows:

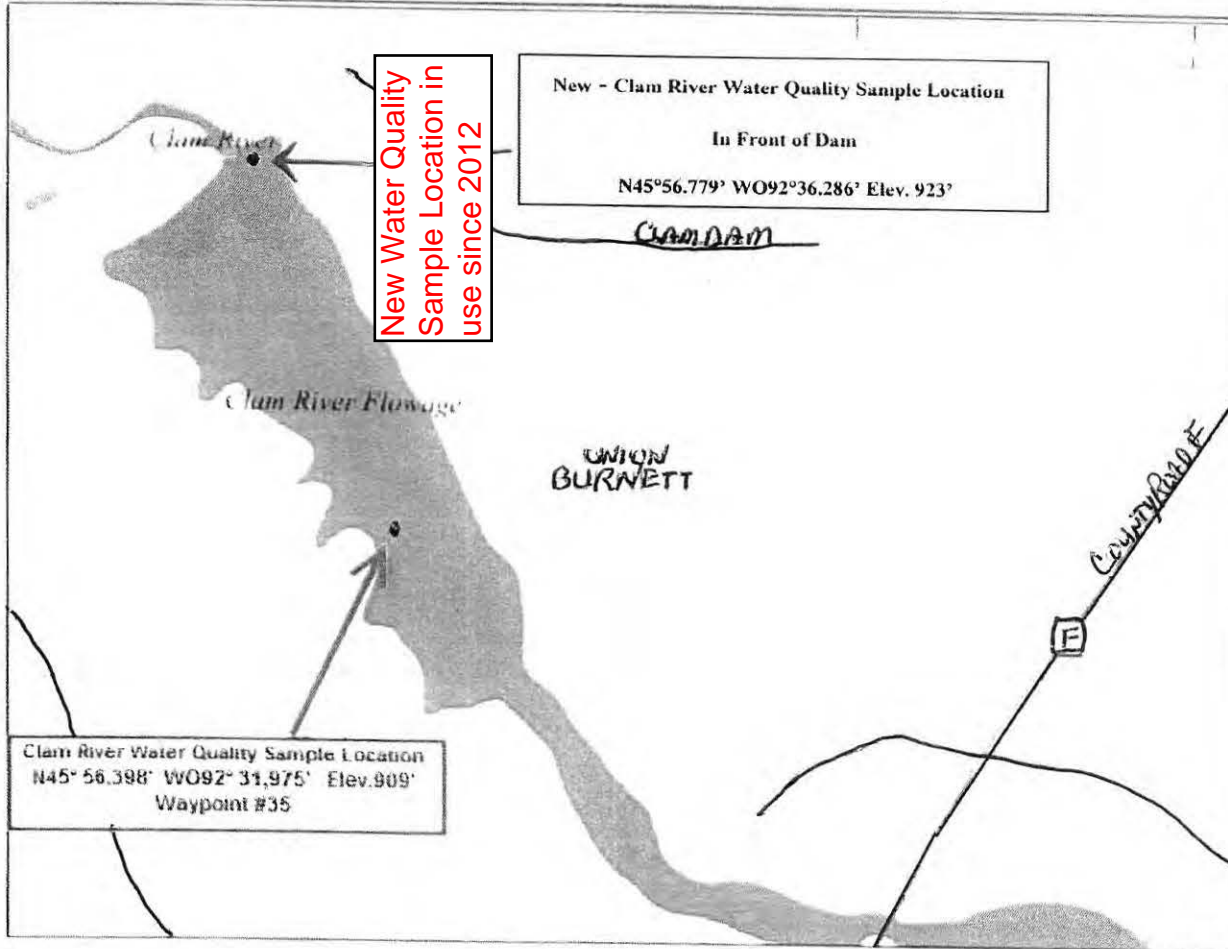
1. Water Clarity – Secchi Decreased Ice Out, July and August
2. Chlorophyll *a* – Increased Ice Out, July and August
3. Color – Increased Ice Out, July and August
4. Total Phosphorus – Increased Ice Out, July and August
5. Overall, D.O. – Decreased Ice Out and July and increased in August
6. Water Temperatures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

The next scheduled Water Quality Monitoring at the Clam River Hydroelectric Project is set to take place in 2019 beginning with the Ice-Out sampling event.

## **Appendix A – Clam River Hydroelectric Project Figures**

Figure 1. Clam River Hydroelectric Project Map

Clam River Hydroelectric Project  
 Water Quality Sampling Location Map  
 FERC Project #9185



Legend

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

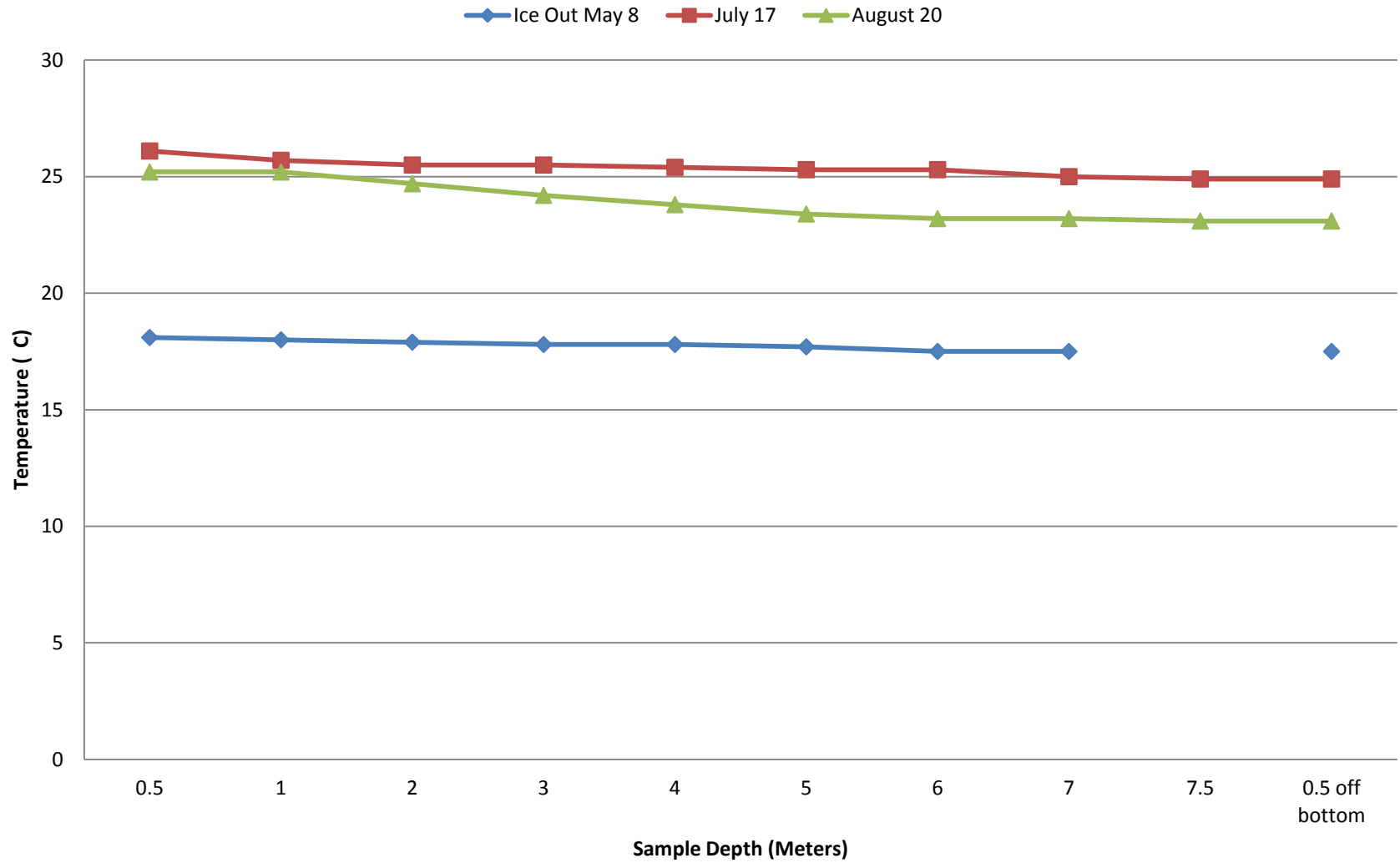
0 850 1700 2550 ft.

Scale: 1:8,967

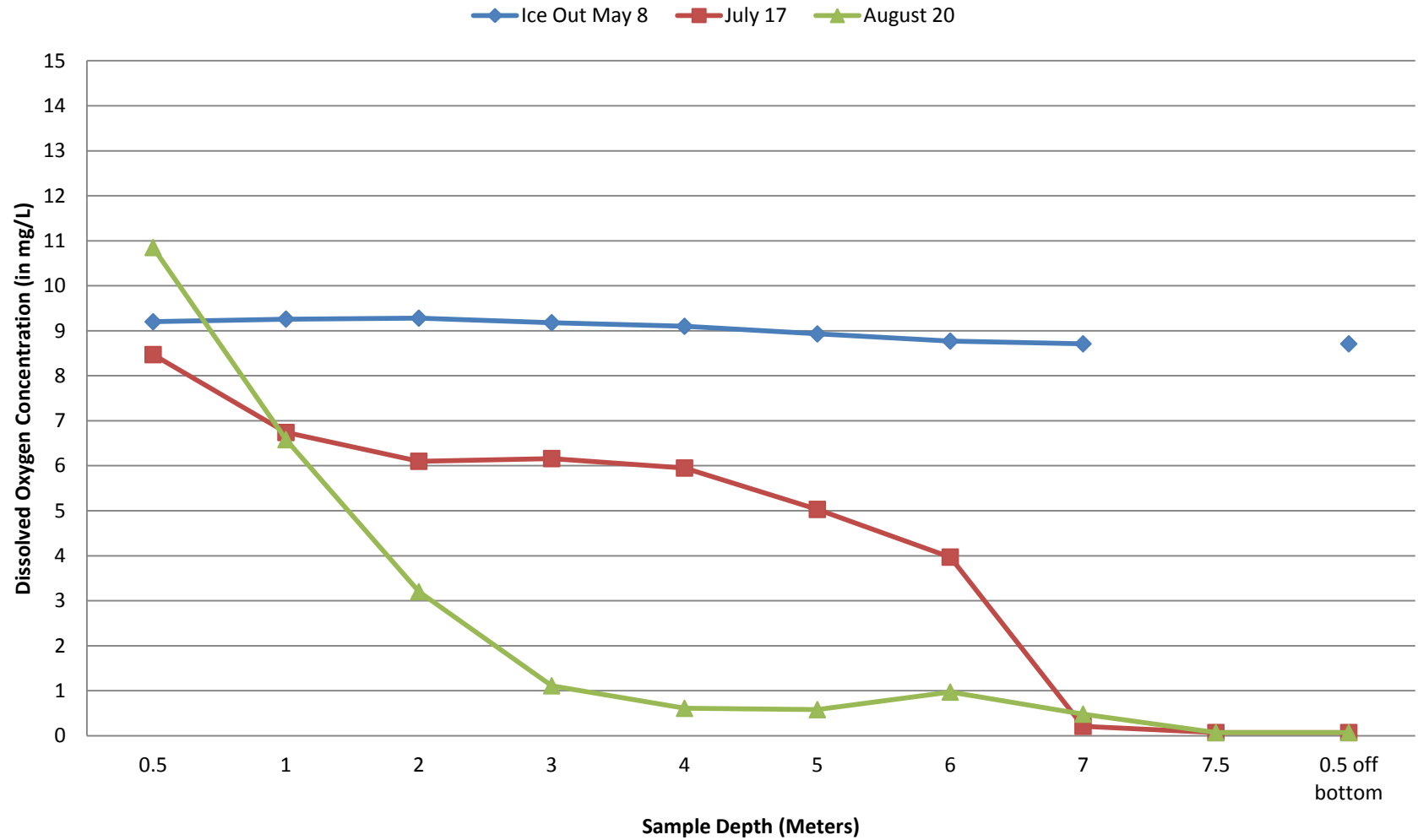
This map is a user generated static output from an internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



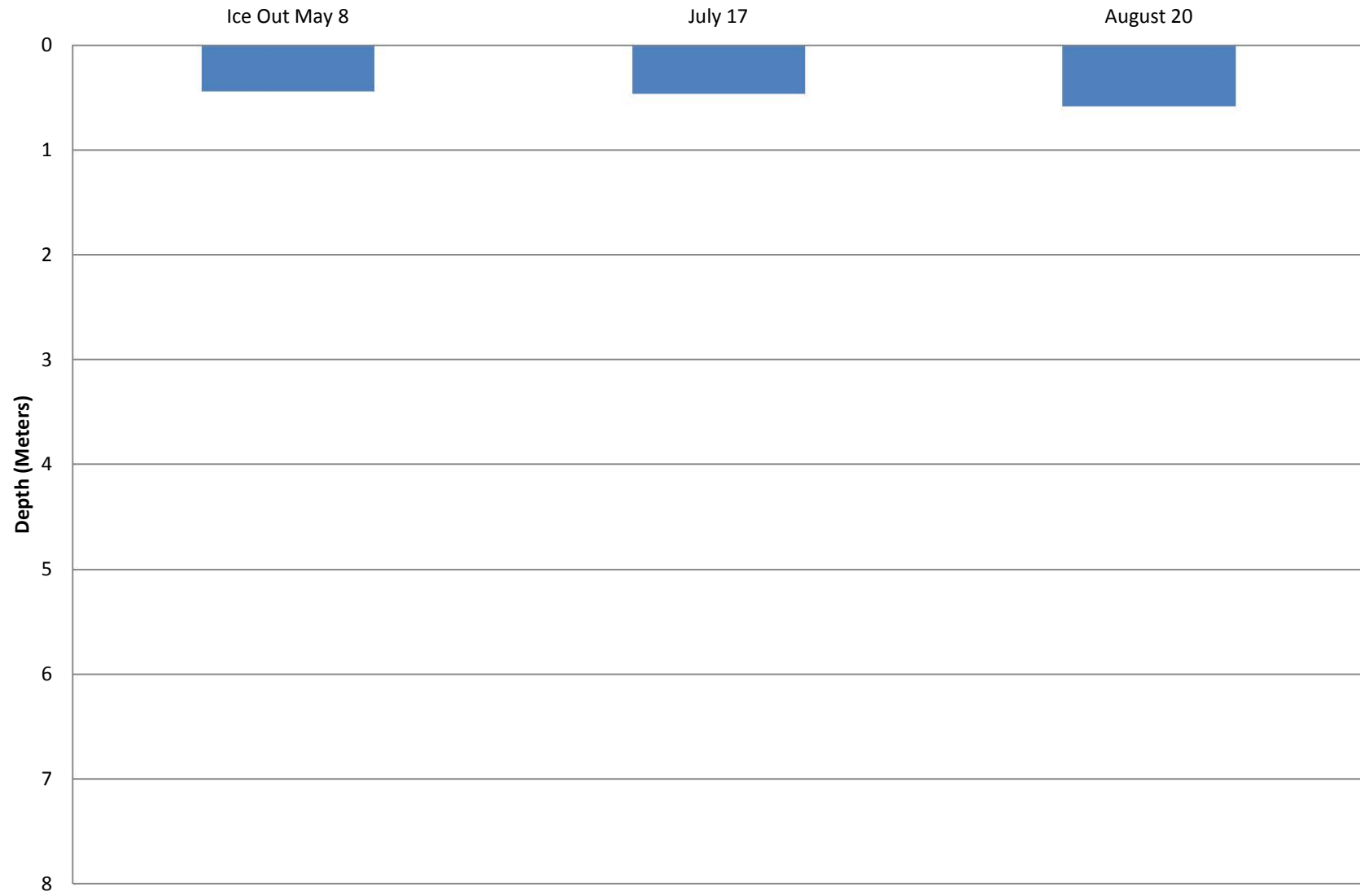
**Figure 2. Clam River Impoundment - FERC #9185  
2018 Temperature Samples**



**Figure 3. Clam River Impoundment- FERC #9185  
2018 Dissolved Oxygen Samples**



**Figure 4. Clam River Impoundment - FERC #9185 2018 Secchi Depths**



## **Appendix B – Clam River Hydroelectric Project Tables**

Table 1. Clam River Hydroelectric Project – FERC Project # 9185: 2018 Water Quality Sampling Data

	Ice Out May 8, 2018			July 17, 2018			August 20, 2018		
<b>Project Flow (c.f.s)</b>	719			293			156		
<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	11:03:57	9.20	18.1	11:43:56	8.47	26.1	9:33:52	10.85	25.2
1 meter below surface	11:04:24	9.26	18.0	11:46:33	6.74	25.7	9:39:04	6.58	25.2
2 meter below surface	11:04:50	9.28	17.9	11:49:27	6.10	25.5	9:42:10	3.20	24.2
3 meter below surface	11:05:18	9.18	17.8	11:50:39	6.16	25.5	9:45:01	1.11	24.2
4 meter below surface	11:06:17	9.10	17.8	11:52:11	5.95	25.4	9:47:55	0.61	23.8
5 meter below surface	11:06:52	8.93	17.7	11:54:42	5.03	25.3	9:50:27	0.58	23.4
6 meter below surface	11:07:34	8.77	17.5	11:57:43	3.97	25.3	9:51:58	0.97	23.2
7 meter below surface	11:08:46	8.71	17.5	12:00:52	0.21	25.0	9:53:10	0.48	23.2
8 meter below surface									
0.5 meter above bottom	11:09:34	8.71	17.5	12:02:20	0.07	24.9	9:54:09	0.07	23.1
<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	11:06	0.44		11:45	0.46		9:46	0.58	
<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	11:15	22		11:36	26		9:35	20	
<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	11:15	25	5*	11:36	30	5*	9:35	30	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	11:15	0.053	0.008*	11:36	0.090	0.008*	9:35	0.067	0.008*
1 meter above bottom	11:15	0.055	0.008*	11:41	0.093	0.008*	9:39	0.074	0.008*

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

Table 2. 2017/18 Water Year Monthly Temperature and Precipitation for Clam River, 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 - 17	75	23	45.6	2.4	594	678	3.40	11.1	2.85	74
November - 17	47	-5	25.7	-3.1	1170	1088	1.31	10.5	2.09	80
December - 17	43	-26	10.5	-4.3	1683	1556	0.83	13.4	1.21	80
January - 18	45	-22	11.0	10.2	1666	1699	0.63	44.1	0.96	76
February - 18	43	-17	10.3	15.1	1526	1399	1.73	24.2	0.81	68
March - 18	48	-4	26.1	0.2	1197	1210	0.44	5.1	1.49	64
April - 18	71	2	32.8	-6.8	958	762	1.39	18.5	2.43	58
May - 18	92	29	57.7	6.3	259	426	2.21	0.00	3.23	59
June - 18	85	40	61.8	1.7	125	179	4.64	0.00	4.23	71
July - 18	89	49	69.1	3.3	6	63	3.28	0.00	3.85	70
August - 18	91	48	67.5	3.2	35	86	3.86	0.00	3.70	76
September - 18	81	30	59.1	3.5	219	298	3.51	0.00	4.11	75

Source: NOAA/Duluth, MN

Table 3. Clam River Project Sampling Comparison Table: 2012 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
2012	April	0.80	13.00	55.00	0.031	*	11.72	15.68	9.60	10.90
2013	May	1.00	17.00	70.00	0.069	0.069	10.91	12.16	10.10	14.20
2014	June	1.10	8.60	70.00	0.041	0.042	9.14	9.40	11.50	12.70
2015	April	1.50	13.00	25.00	0.049	0.039	8.45	11.93	9.90	14.40
2016	March	1.19	11.00	15.00	0.040	0.040	10.91	12.09	3.90	4.80
2017	April	1.30	15.00	10.00	0.024	0.025	9.91	11.03	9.70	10.80
2018	May	0.44	22.00	25.00	0.053	0.055	8.71	9.28	17.50	18.10
<b>Minimum</b>	March-June	0.44	8.60	10.00	0.024	0.025	8.45	9.28	3.90	4.80
<b>Maximum</b>	March-June	1.50	22.00	70.00	0.069	0.069	11.72	15.68	17.50	18.10
<b>Average</b>	March-June	1.05	14.23	38.57	0.044	0.045	9.96	11.56	10.31	12.27
2012	July	1.10	13.00	50.00	0.042	0.050	0.04	12.33	24.80	28.70
2013	July	1.20	23.00	70.00	0.064	0.067	0.97	7.22	23.70	24.10
2014	July	0.80	18.00	50.00	0.056	0.055	7.06	12.44	20.40	22.50
2015	July	1.10	12.00	35.00	0.061	0.043	7.48	9.77	22.00	23.10
2016	July	0.88	44.00	30.00	0.043	0.043	0.70	11.31	24.40	26.60
2017	July	1.00	15.00	25.00	0.033	0.075	5.83	9.47	23.50	23.90
2018	July	0.46	26.00	30.00	0.090	0.093	0.07	8.47	24.90	26.10
<b>Minimum</b>	July	0.46	12.00	25.00	0.033	0.043	0.04	7.22	20.40	22.50
<b>Maximum</b>	July	1.20	44.00	70.00	0.090	0.093	7.48	12.44	24.90	28.70
<b>Average</b>	July	0.93	21.57	41.43	0.056	0.061	3.16	10.14	23.39	25.00
2012	August	0.70	43.00	70.00	0.067	0.066	5.01	12.77	21.20	22.40
2013	August	0.50	48.00	100.00	0.110	0.098	3.78	12.47	20.40	21.90
2014	August	0.60	34.00	50.00	0.081	0.075	4.91	10.13	22.70	24.20
2015	August	0.50	120.00	40.00	0.076	0.043	5.50	16.91	22.60	24.70
2016	August	0.70	61.00	25.00	0.050	0.053	0.16	14.89	22.80	25.30
2017	August	1.00	11.00	20.00	0.034	0.034	3.30	9.84	20.70	21.40
2018	August	0.58	20.00	30.00	0.067	0.074	0.07	10.85	23.10	25.50
<b>Minimum</b>	August	0.50	11.00	20.00	0.034	0.034	0.07	9.84	20.40	21.40
<b>Maximum</b>	August	1.00	120.00	100.00	0.110	0.098	5.50	16.91	23.10	25.50
<b>Average</b>	August	0.65	48.14	47.86	0.069	0.063	3.25	12.55	21.93	23.63

\*no sample taken

**Appendix C – Clam River Impoundment Project Sampling Logs**



# IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Clam River

Hydroelectric Project – FERC # 9185

Date: 5-8-2018

Pre-Sampling Data:

HWL 898.67 TWL 865.30 CFS 719

Sample Location: WQ2  
N45° 56.779 W092° 36.286'

Performed by: Stine, Wimmer

Time: 11:00 Barometer: \_\_\_\_\_

Air Temp: 58 °F Wind Speed: NW 1 mph

Sky Conditions: 100 clouds

Precipitation within Last 24 Hours: NO

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed?  Yes  No

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

Battery Status: 40 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 23 Feet

Secchi Depth (± 0.1)		
Time	<u>11:06</u>	<u>0.14 m</u>
	meters:	<u>4.3</u> Feet

Comments:

Chlorophyll a (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time <u>11:15</u>	Quantity (ml)	Filtered
	1000	In Lab
Preservative	MgCO <sub>3</sub>	

True Color (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time: <u>11:15</u>	

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time <u>11:15</u>	Preservative
	H <sub>2</sub> SO <sub>4</sub>

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. #:	
Time <u>11:20</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>11:03:57</u>	<u>9.20</u>	<u>18.1</u>
1	<u>11:04:24</u>	<u>9.26</u>	<u>18.0</u>
2	<u>11:04:50</u>	<u>9.28</u>	<u>17.9</u>
3	<u>11:05:18</u>	<u>9.18</u>	<u>17.8</u>
4	<u>11:06:47</u>	<u>9.10</u>	<u>17.8</u>
5	<u>11:06:52</u>	<u>8.93</u>	<u>17.7</u>
6	<u>11:07:34</u>	<u>8.77</u>	<u>17.5</u>
7	<u>11:08:46</u>	<u>8.71</u>	<u>17.5</u>
8			
0.5 above bottom	<u>11:09:34</u>	<u>8.71</u>	<u>17.5</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 Clam River

Hydroelectric Project – FERC # 9185

Date: 7-17-18

Pre-Sampling Data:

HWL 889.76 TWL 864.04 CFS 293

Sample Location: N45° Sk. 379 W092° Sk. 286

Performed by:

Angie Stine - Wambae Ryan

Time: 11:34 Barometer: 30.1

Air Temp: 77 °F Wind Speed: NNE 2 mph

Sky Conditions: 50% clouds

Precipitation within Last 24 Hours: NO

D.O. Meter Calibration:

Instrument Model Used: HQ40D

Were the batteries changed?  Yes  No

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

Battery Status: 60 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 25 Feet

Secchi Depth (± 0.1)	
Time <u>11:45</u>	<u>1.5</u> Feet <u>0.44 m</u>

Comments:

Chlorophyll a (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time	Quantity (ml)	Filtered
<u>11:36</u>	1000	In Lab
Preservative	MgCO <sub>3</sub>	

True Color (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time: <u>11:36</u>	

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time <u>11:36</u>	Preservative
	H <sub>2</sub> SO <sub>4</sub>

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. #:	
Time <u>11:41</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>11:35:58</u>	<u>9.16</u>	<u>27.1</u>
1	<u>11:36:51</u>	<u>6.92</u>	<u>26.0</u>
2	<u>11:37:39</u>	<u>6.33</u>	<u>25.7</u>
3	<u>11:38:11</u>	<u>6.14</u>	<u>25.6</u>
4	<u>11:38:45</u>	<u>5.99</u>	<u>25.5</u>
5	<u>11:39:20</u>	<u>5.49</u>	<u>25.4</u>
6	<u>11:40:25</u>	<u>4.46</u>	<u>25.3</u>
7			
8			
0.5 above bottom			

\*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.



Clam River 7-17-2018

*D.O. and Temperature Profile			
Depth (Feet)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	11:13:56	8.47	26.1
1	11:14:25	7.78	25.9
2	11:13:38	7.69	25.8
3	11:16:33	6.74	25.7
4	11:17:15	6.63	25.6
5	11:17:56	6.60	25.6
6	11:18:36	6.41	25.6
7	11:19:27	6.10	25.5
8	11:19:50	6.11	25.5
9	11:20:15	6.13	25.5
10	11:20:39	6.16	25.5
11	11:21:03	6.15	25.4
12	11:21:37	6.11	25.4
13	11:22:11	5.95	25.4
14	11:22:42	5.93	25.4
15	11:23:04	5.86	25.4
16	11:23:58	5.20	25.3
17	11:24:42	5.03	25.3
18	11:25:27	4.64	25.3
19	11:26:48	4.36	25.3
20	11:27:43	3.97	25.3
21	11:28:17	3.83	25.3
22	11:29:31	1.58	25.1
23	12:01:52	0.21	25.0
24	12:01:42	0.12	24.9
25	12:02:06	0.07	24.9
0.5 above bottom	12:02:20	0.07	24.9

# IMPOUNDMENT SAMPLING LOG

Water Quality Study Location Clam River  
 Hydroelectric Project – FERC # 9185  
 Date: 8-20-18

Pre-Sampling Data:

HWL 898.66 TWL 863.10 CFS 156  
 Sample Location: N45° 56.779 W 092° 36.286

Performed by: Stine Warmboe

Time: 9:35 Barometer: 30

Air Temp: 70 °F Wind Speed: 15 mph

Sky Conditions: 100 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: 90 % Charge

Calibration Method: Factory

Sampling Depth Profile: Measured depth to bottom of impoundment: 25 Feet

Secchi Depth (± 0.1)	
Time <u>9:46</u>	<u>1.9</u> Feet

0.58 m

Comments:

Chlorophyll a (3 feet below surface horizontal sampler)		
Lab Sample I.D. #:		
Time	Quantity (ml)	Filtered
<u>9:35</u>	1000	In Lab
Preservative	MgCO <sub>3</sub>	

True Color (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time: <u>9:35</u>	

Total Phosphorus (3 feet below surface horizontal sampler)	
Lab Sample I.D. #:	
Time <u>9:35</u>	Preservative
	H <sub>2</sub> SO <sub>4</sub>

Total Phosphorus (3 feet above bottom horizontal sampler)	
Lab Sample I.D. #:	
Time <u>9:39</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			
1			
2			
3			
4			
5			
6			
7			
8			
0.5 above bottom			

\*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. on Back



# Clam River 8-20-18

*D.O. and Temperature Profile			
Depth (Feet)	Time	D.O. (mg/L)	Temperature °C
0.5 below surface	9:33:51	10.85	25.2
1	9:35:59	10.50	25.5
2	9:37:44	7.63	25.3
3	9:39:04	6.58	25.2
4	9:40:68	4.89	25.0
5	9:40:52	3.67	24.9
6	9:41:35	3.34	24.8
7	9:42:10	3.20	24.7
8	9:42:59	2.65	24.6
9	9:44:58	1.98	24.3
10	9:45:01	1.11	24.2
11	9:46:35	1.43	24.1
12	9:47:07	1.26	24.0
13	9:47:55	0.61	23.8
14	9:48:29	1.03	23.6
15	9:49:18	0.60	23.5
16	9:49:59	0.49	23.4
17	9:50:27	0.58	23.4
18	9:50:54	0.75	23.3
19	9:51:23	0.71	23.3
20	9:51:58	0.97	23.2
21	9:52:26	0.98	23.2
22	9:52:50	0.78	23.2
23	9:53:10	0.48	23.2
24	9:53:42	0.27	23.2
25	9:54:09	0.07	23.1
0.5 above bottom	9:54:09	0.07	23.1

Sent email 10.02 Brian V.  
Dean P.

**Appendix D – Clam River Hydroelectric Project Lab Reports and Chains  
of Custody**



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**Cover Page**

---

**Client:** RWE

**WWA Job #:** 75737

---

**Project:** Monitoring

**Date Received:** 5/9/2018

**Date Reported:** 6/5/2018

---

<b>Sample Number</b>	<b>Client Sample ID</b>	<b>Date Sampled</b>	<b>Sample Matrix</b>
75737-001	Clam River Surface	05/08/18	Water
75737-002	Clam River Bottom	05/08/18	Water
75737-003	Danbury Surface	05/08/18	Water
75737-004	Danbury Bottom	05/08/18	Water



**Cover Page..continued**

---

**Client:** RWE

**WWA Job #:** 75737

---

**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.

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Client: RWE

WWA Job #: 75737

Project: Monitoring

Date Received: 5/9/2018

Date Reported: 6/5/2018

## Sample Results

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date/Time	Method	MDL	MQL	Analyst
<b>75737-001 / Clam River Surface / Water</b>								
<b>General Chemistry Parameters</b>								
Chlorophyll a	22		mg/m3	6/1/2018 8:30	10200H	NA	NA	CA
Color	25		CU	5/10/2018 13:10	2120B	5	5	AH
Total Phosphorus LL (t)	0.053		mg/L	5/25/2018 16:51	365.4	0.008	0.050	NK
<b>75737-002 / Clam River Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.055		mg/L	5/25/2018 16:52	365.4	0.008	0.050	NK
<b>75737-003 / Danbury Surface / Water</b>								
<b>General Chemistry Parameters</b>								
Chlorophyll a	7.8		mg/m3	6/1/2018 8:30	10200H	NA	NA	CA
Color	20		CU	5/10/2018 13:10	2120B	5	5	AH
Total Phosphorus LL (t)	0.028	J	mg/L	5/25/2018 16:54	365.4	0.008	0.050	NK
<b>75737-004 / Danbury Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.025	J	mg/L	5/25/2018 16:54	365.4	0.008	0.050	NK

Job # (WWA office use): 75737 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 <u>RWE</u>	EMAIL ADDRESS
-------------------------------------	---------------

ADDRESS	TELEPHONE
---------	-----------

CITY	STATE	ZIP	CONTRACT / PO / PROJECT NAME / WSSN# <u>Monitoring</u>
------	-------	-----	---

SAMPLER NAME (print first/last name) <u>Ryan Warmboe</u>	COUNTY OF LOCATION	PAGE <u>1</u> OF <u>1</u>	Indicate if more than one page of COC records used
---	--------------------	------------------------------	--

SAMPLER'S SIGNATURE <u>Ryan Warmboe</u>	Check off preservatives for each bottle upon arrival and indicate total number of bottles. WWA database contains bottle preservation details.
--	---

SAMPLE ID AND LOCATION Containers for each sample may be combined on one line.	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																								
<u>1 Clam River Surface</u>	<u>5-8-18</u>	<u>11:15</u>	X					X	X								<u>3</u>	<u>Ch/a</u>	<u>T Phos</u>	<u>Color</u>																		
<u>2 Clam River Bottom</u>	<u>"</u>	<u>11:20</u>	X						X								<u>1</u>																					
<u>3 Danbury Surface</u>	<u>"</u>	<u>13:55</u>	X					X	X								<u>3</u>	X	X	X																		
<u>4 Danbury Bottom</u>	<u>"</u>	<u>13:59</u>	X						X								<u>1</u>	X																				

ANALYSIS TYPE REQUESTED (Attach list if needed)											

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: <u>Ryan Warmboe</u>	Date: <u>5/9/18</u>	Time: <u>17:10</u>	Received by:	Date:	Time:	Comments/Sample temp. on receipt:	Packing: Ice <input checked="" type="checkbox"/> Cooler <input type="checkbox"/>
Relinquished by:	Date:	Time:	Received by: <u>Logan</u>	Date: <u>5-10-18</u>	Time: <u>1140</u>	<u>+1</u>	



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## Cover Page

---

**Client:** RWE

**WWA Job #:** 77697

---

**Project:** Monitoring

**Date Received:** 7/18/2018

**Date Reported:** 8/6/2018

---

<b>Sample Number</b>	<b>Client Sample ID</b>	<b>Date Sampled</b>	<b>Sample Matrix</b>
77697-001	Clam River	07/17/18	Water
77697-002	Clam River	07/17/18	Water
77697-003	Danbury	07/17/18	Water
77697-004	Danbury	07/17/18	Water



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**Cover Page..continued**

**Client:** RWE

**WWA Job #:** 77697

**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



Client: RWE

WWA Job #: 77697

Project: Monitoring

Date Received: 7/18/2018

Date Reported: 8/6/2018

---

**Sample Results**


---

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date/Time	Method	MDL	MQL	Analyst
<b>77697-001 / Clam River / Surface / Water</b>								
<b>General Chemistry Parameters</b>								
Chlorophyll a	26		mg/m3	7/27/2018 13:45	10200H	NA	NA	CA
Color	30		CU	7/19/2018 14:00	2120B	5	5	AH
Total Phosphorus LL (t)	0.090		mg/L	8/3/2018 10:27	365.4	0.008	0.050	NK
<b>77697-002 / Clam River / Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.093		mg/L	8/3/2018 10:28	365.4	0.008	0.050	NK
<b>77697-003 / Danbury / Surface / Water</b>								
<b>General Chemistry Parameters</b>								
Chlorophyll a	14		mg/m3	7/27/2018 13:45	10200H	NA	NA	CA
Color	20		CU	7/19/2018 14:00	2120B	5	5	AH
Total Phosphorus LL (t)	0.067		mg/L	8/3/2018 10:30	365.4	0.008	0.050	NK
<b>77697-004 / Danbury / Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.064		mg/L	8/3/2018 10:31	365.4	0.008	0.050	NK

---

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): 77697

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 Spira</b>			COUNTY OF LOCATION					PAGE <b>1</b> OF <b>1</b>						Indicate if more than one page of COC records used														
SAMPLER'S SIGNATURE <i>Angie Spira</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 Containers for each sample may be combined on one line.	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													
<b>1 Clam River Surface</b>	<b>7/7/18</b>	<b>11:36</b>	X				X	X							<b>3</b>	<b>X</b>	<b>X</b>	<b>X</b>										
<b>2 Clam River Bottom</b>	<b>"</b>	<b>11:41</b>	X						X						<b>1</b>		<b>X</b>											
<b>3 Danbury Surface</b>	<b>"</b>	<b>15:07</b>	X					X	X						<b>3</b>	<b>X</b>	<b>X</b>	<b>X</b>										
<b>4 Danbury Bottom</b>	<b>"</b>	<b>15:11</b>	X						X						<b>1</b>		<b>X</b>											

ANALYSIS TYPE REQUESTED (Attach list if needed)												

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:
<i>R. Pagan</i>	7/18/18	16:58	Nicole A. Kuzak	7/18/18	16:58

Comments/Sample temp. on receipt: **T = 2°C**

Packing: Ice  Cooler

UPS  FedEx  USPS  Client  Other **WWA**



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

---

**Client:** RWE

**WWA Job #:** 78451

---

**Project:** Monitoring

**Date Received:** 8/22/2018

**Date Reported:** 9/4/2018

---

<b>Sample Number</b>	<b>Client Sample ID</b>	<b>Date Sampled</b>	<b>Sample Matrix</b>
78451-001	Clam River	08/20/18	Water
78451-002	Clam River	08/20/18	Water
78451-003	Danbury	08/19/18	Water
78451-004	Danbury	08/19/18	Water

Cover Page..continued

Client: RWE

WWA Job #: 78451

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:

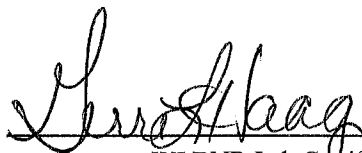
S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

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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Approved By:



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





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Client: RWE

WWA Job #: 78451

Project: Monitoring

Date Received: 8/22/2018

Date Reported: 9/20/2018

---

**Sample Results**


---

Sample No. / ID / Description / Matrix	Result	Flags	Units	Date/Time	Method	MDL	MLQ	Analyst
<b>78451-001 / Clam River / Surface / Water</b>								
<b>General Chemistry Parameters</b>								
Chlorophyll a	20		mg/m3	8/29/2018 15:30	10200H	NA	NA	CA
Color	30		CU	8/23/2018 11:10	2120B	5	5	AH
Total Phosphorus LL (t)	0.067		mg/L	8/31/2018 17:59	365.4	0.008	0.050	NK
<b>78451-002 / Clam River / Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.074		mg/L	8/31/2018 18:02	365.4	0.008	0.050	NK
<b>78451-003 / Danbury / Surface / Water</b>								
<b>General Chemistry Parameters</b>								
Chlorophyll a	2.1		mg/m3	8/29/2018 15:30	10200H	NA	NA	CA
Color	25		CU	8/23/2018 11:10	2120B	5	5	AH
Total Phosphorus LL (t)	0.076		mg/L	8/31/2018 18:02	365.4	0.008	0.050	NK
<b>78451-004 / Danbury / Bottom / Water</b>								
<b>General Chemistry Parameters</b>								
Total Phosphorus LL (t)	0.079		mg/L	8/31/2018 18:03	365.4	0.008	0.050	NK

---

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):

78451

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 RWE			EMAIL ADDRESS											
ADDRESS			TELEPHONE											
CITY	STATE	ZIP	CONTRACT / PO / PROJECT NAME / WSSN# Monitoring											
SAMPLER NAME (print first/last name) Ryan Warmboe			COUNTY OF LOCATION	PAGE 1 OF 1								Indicate if more than one page of COC records used		
SAMPLER'S SIGNATURE <i>Ryan Warmboe</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 Containers for each sample may be combined on one line.	DATE	TIME	SAMPLE MATRIX					CONTAINERS / PRESERVATIVES						Total Number of Containers
			Drinking water	Aqueous	Sed.	Soil	Other	None	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	

ANALYSIS TYPE REQUESTED (Attach list if needed)

Chl a (mg/L)	T Phos	Color																		
--------------	--------	-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	8-20-18	9:35		X					X	X						3	X	X	X						
2	Clam River Bottom	8-20-18	9:39		X						X						1		X							
3	Danbury Surface	8-19-18	13:50		X					X	X						3	X	X	X						
4	Danbury Bottom	"	13:53		X						X						1		X							

Relinquished by: <i>Ryan Warmboe</i>	Date: 8/22/18	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: <i>mcg</i>	Date: 8-22-18	Time: 1550

Comments/Sample temp. on receipt: Packing: Ice  Cooler

## Brian Kreuscher

---

**From:** Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>  
**Sent:** Monday, December 10, 2018 11:57 AM  
**To:** Brian Kreuscher  
**Subject:** RE: REVIEW REQUESTED: FW: Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports

Correct with final is fine.

**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 Kreuscher <bkreuscher@rwehydro.com>  
**Sent:** Monday, December 10, 2018 11:22 AM  
**To:** Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>  
**Subject:** Re: REVIEW REQUESTED: FW: Danbury (P-9184) Clam River (P-9185) Draft Water Quality Reports

Cheryl,

Apologies on that. Changing the date on that table must have been missed. Just as with the Clam River report on that same Table, it should say 2017-2018 Water Year Monthly Temperature. Do you need a corrected Draft report with this, or can this just be corrected with the Final submission.

Thanks

Brian Kreuscher

Renewable World Energies  
Regulatory & Compliance  
855-994-9376 x230

---

**From:** Laatsch, Cheryl - DNR <[Cheryl.Laatsch@wisconsin.gov](mailto:Cheryl.Laatsch@wisconsin.gov)>  
**Sent:** Monday, December 10, 2018 10:52 AM

**To:** Brian Kreuzscher

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

Please double check the info that you sent to the Department. Was it 2017 or 2018? (See Craigs 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:** Monday, December 10, 2018 10:51 AM

**To:** Laatsch, Cheryl - DNR <[Cheryl.Laatsch@wisconsin.gov](mailto:Cheryl.Laatsch@wisconsin.gov)>

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

Just one comment for the Danbury report. Table 2 is titled as 2016/17 water year – should be 2017/18.

---

**From:** Laatsch, Cheryl - DNR

**Sent:** Wednesday, December 5, 2018 1:34 PM

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

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

Hi Craig - Here are the draft reports for Danbury and Clam. I will request the spreadsheets for the data to be entered into SWIMS. Please review and let me know if you have any concerns. I would appreciate if you could provide **comments before Dec 13<sup>th</sup>** (as I will be on medical leave). If you cannot meet this deadline, please let me know, so I can assign a person to watch for your response. Thanks

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Cheryl Laatsch  
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**From:** Brian Kreuzscher <[bkreuscher@rwehydro.com](mailto:bkreuscher@rwehydro.com)>  
**Sent:** Wednesday, December 05, 2018 12:04 PM  
**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 60 days for FERC submittal.

Thanks

Brian Kreuzscher

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