

December 2, 2013

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 2013 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 2013 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. 2013 was the sixth year monitoring was conducted since the license was issued, but is the 2nd year of submittal by RWE on the behalf of the Licensee.

Monitoring was conducted on May 8, July 10, and August 7, 2013. The only issue encountered was some below standard D O measurements taken on the July 10th and August 7th dates. Agencies were notified by e-mail dated July 10, 2013 and August 8th of the issues. The draft report was sent to the agencies by letter dated October 2, 2013 for review and comment. Correspondence was received from WDNR on October 8, 2013. WDNR comments were "Thanks for the report. The data looks good." "Recommendation: We would like RWE to obtain a SWIMS ID, and enter the monitoring data into the statewide database." I spoke to Ms. Cheryl Laatsch (WDNR) by phone about this request and indicated it was our position that we had provided the data and WDNR was welcome to do what they needed. She later informed RWE that the report was forwarded to Ms. Jennifer Filbert of WDNR (SWIMS ID Program) and that she had what was needed. They had entered all the data and all was well. Following all these conversations RWE obtained a SWIMS ID number in case it is needed in the future. The USFWS responded on October 22, 2013 and offered no comment. The next scheduled monitoring event will be conducted in 2014.

Corporate Office
P.O. Box 264
100 S. State Street
Neshkoro, WI 54960
Fax: 920-293-4100

Phone: 855-99HYDRO
(855-994-9376)
www.renewableworldenergies.com

Administrative Office
1001 Stephenson Street
Norway, MI 49870
Fax: 906-563-9344



If you have any questions concerning this submittal, please contact Mr. Gary Rast at the Renewable World Energies, LLC offices @ 855-994-9376 Ext 105. He can also be reached by e-mail at grast@rwehydro.com.

Sincerely,
Renewable World Energies, LLC
Agent for Licensee



A handwritten signature in black ink that reads "Gary Rast". To the left of the signature, there is a small, stylized initials "J.K." followed by a checkmark symbol.

Mr. Jason Kreuscher
Vice President, Operations

Attachment: Final Report 2013 Water Quality Monitoring Data – December 2, 2013

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

Final Report

2013 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, WI

Respectfully Submitted by:

Renewable World Energies, LLC
100 State Street – P.O. Box 264
Neshkoro, Wisconsin 54960

Final – December 2, 2013

Table of Contents

I.	Summary	3
II.	2013 Sampling Results Table	5
III.	2013 Graphed Data	6
IV.	2013 Monthly Temperature and Precipitation Table	7
V.	2013 Sampling Comparison Table.....	8
VI.	Sampling Location Map.....	9
	APPENDIX A - May 8, 2013 Sampling Documents	10
	APPENDIX B - July 10, 2013 Sampling Documents.....	11
	APPENDIX C - August 7, 2013 Sampling Documents.....	12
	APPENDIX D - Agency Correspondence.....	13

Summary

2013 marked the sixth year of water quality sampling under the 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.

Ice-Out occurred on the Clam River during the week beginning April 28, 2013. The Ice-Out sampling event occurred on May 8, 2013. River flow, based on Clam River Hydroelectric Project records, was approximately 485 cubic feet per second. Sampling occurred between 1:00 p.m. and 1:33 p.m. Samples were taken without incident. No unusual D.O. or Temperature readings were observed. Samples for laboratory analysis were delivered to Northern Lake Service, Inc in Crandon, WI on May 9, 2013. Northern Lake Service, Inc. issued a laboratory report on May 8, 2013. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

River flow, based on Clam River Hydroelectric Project records, was approximately 175 cubic feet per second during the July 10, 2013 sampling event. Sampling occurred between 10:45 am. and 11:13 am. Samples were taken without incident. No unusual Temperature readings were observed. However below standard D.O. readings were encountered beginning at the 1 meter level (4.90) and continually dropped all the way to the .5 meter above bottom level (.97). Agencies were notified by e-mail on July 10, 2013. Samples for laboratory analysis were delivered to Northern Lake Service, Inc. in Crandon, WI on July 11, 2013. Northern Lake Service, Inc. issued a laboratory report on July 15, 2013. No unusual levels of True Color, or Total Phosphorus were noted in the laboratory reports

River flow, based on Clam River Hydroelectric Project records, was approximately 175 cubic feet per second during the August 7, 2013 sampling event. Sampling occurred between 12:15 p.m. and 12:52 p.m. Samples were taken without incident. No unusual Temperature readings were observed. However, below standard D.O. measurements were encountered beginning at the 5 meter level (4.94) down to and including the .5 meter above the bottom level (3.78). Agencies were notified by e-mail on August 8, 2013. Samples for laboratory analysis were delivered to Northern Lake Service, Inc. in Crandon, WI on August 8, 2013. Northern Lake Service, Inc. issued a laboratory report on August 14, 2013. No unusual levels of Chlorophyll a, True Color, or Total Phosphorus were noted in the laboratory reports.

In general, the weather (temperature and rainfall) during the 2013 monitoring season appeared cooler in April/May with higher than normal precipitation in the months of April/May/June. Temperatures in June/July/August were about 1to5 degrees higher than normal but precipitation was about 50% below normal for July/August. (**Refer to 2013 Monthly Temperature and Precipitation Table page 7**)

A summary of a comparison between the 2011 thru 2013 (**Refer to 2013 Clam River Project Sampling Comparison Table 2011-2013 page 8**) sampling results are as follows:

1. Water Clarity – Increased in May/July and Decreased slightly in August
2. Chlorophyll a – Increased
3. Color – Increased
4. Total Phosphorus – Increased
5. Overall D.O. – Decreased
6. Water Temperatures – Increased in May and Decreased July/August

Correspondence from the agencies during 2010 indicated they would prefer that notifications of incidents be by e-mail only and that telephone contacts are not needed. All other correspondence can be found on page 13, **Appendix D**. The next scheduled Water Quality Monitoring at the Clam River Hydroelectric Project is set to take place in 2014 beginning with the Ice-Out sampling event.

**2013
Sampling Results
Table**

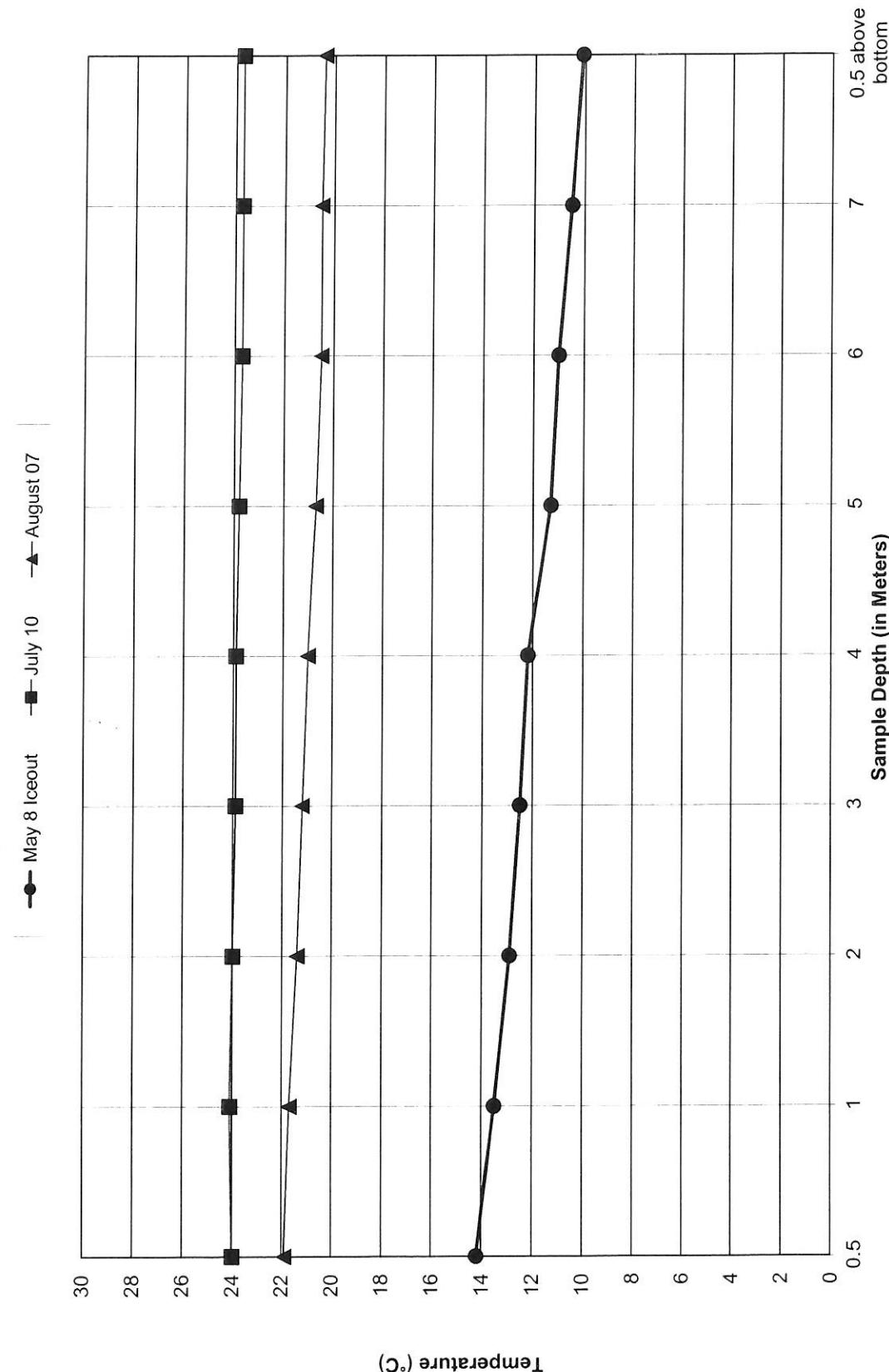
Clam River Hydroelectric Project - FERC Project # 9185
2013 Water Quality Sampling Data

May 8, 2013		July 10, 2013		August 7, 2013	
Project Flow (c.f.s.)		175		175	
Dissolved Oxygen		Time	D.O. (mg/L)	Water Temp. (°C)	
0.5 meter below surface	1:22 PM	12.16	14.2	10:59 AM	5:16
1 meter below surface	1:23 PM	12.13	13.5	11:00 AM	4.90
2 meter below surface	1:24 PM	11.56	12.9	11:02 AM	2.87
3 meter below surface	1:25 PM	11.53	12.5	11:04 AM	2.63
4 meter below surface	1:26 PM	11.39	12.2	11:06 AM	2.14
5 meter below surface	1:27 PM	11.15	11.3	11:08 AM	2.02
6 meter below surface	1:30 PM	11.12	11.0	11:10 AM	1.65
7 meter below surface	1:32 PM	10.92	10.5	11:12 AM	1.15
.5 meter above bottom	1:33 PM	10.91	10.1	11:13 AM	0.97
Secchi Disk		Time	Depth (mtr)	Depth (mtr)	
Meters below surface	1:10 PM	1.00	10:45 AM	1.20	
Chlorophyll a		Time	ug/L	ug/L	
1 meter below surface	1:15 PM	17.00	10:48 AM	23.00	
Color (True)		Time	C.P.U. Units	LOD	LOD
1 meter below surface	1:17 PM	70.0	5.0*	10:49 AM	70.0
Total Phosphorus		Time	mg/L	LOD	LOD
1 meter below surface	1:19 PM	0.069	0.0070*	10:50 AM	0.064
1 meter above bottom	1:21 PM	0.069	0.0070*	10:51 AM	0.067

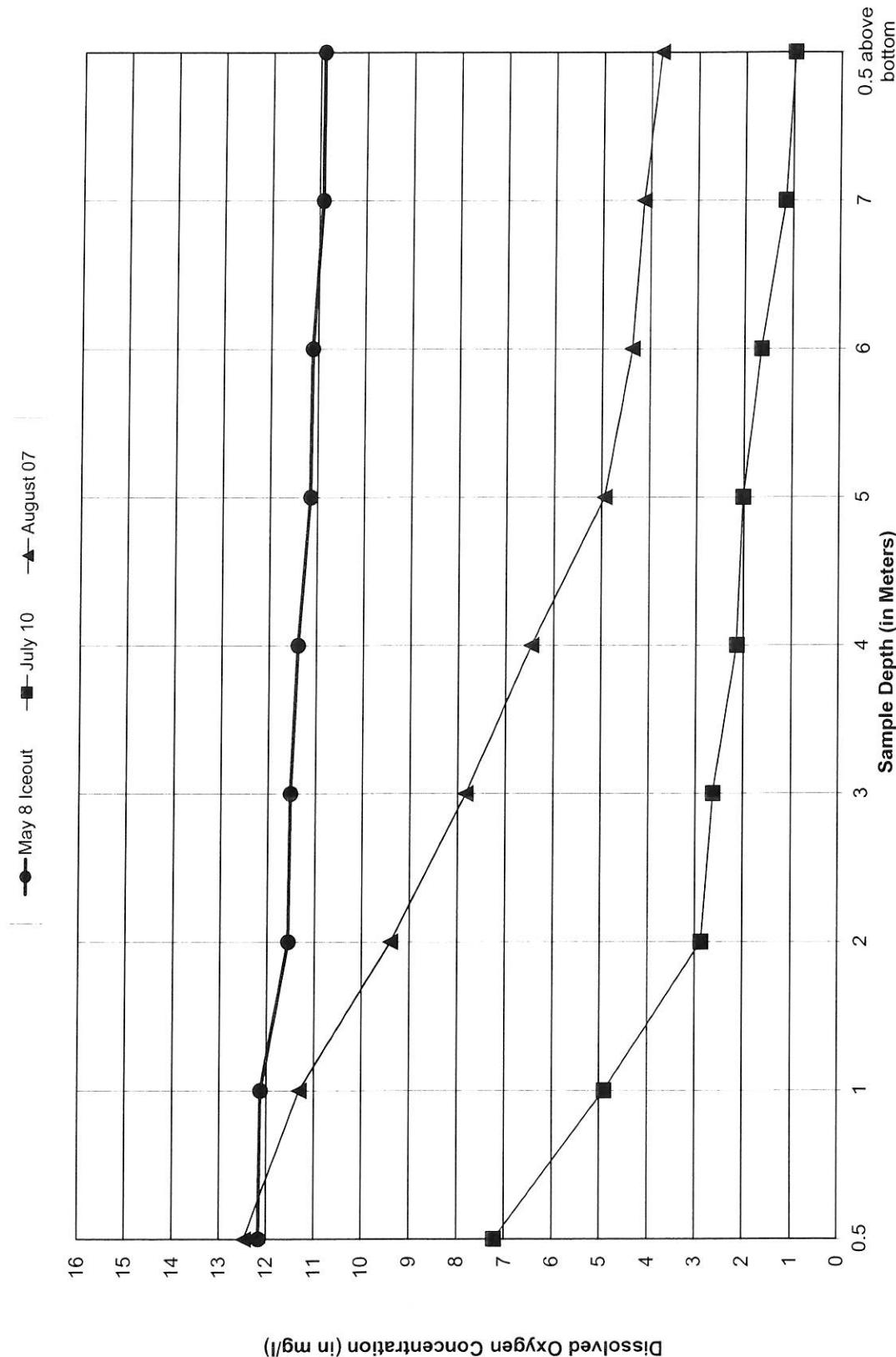
* Considered Reporting Limits

2013
Graphed Data
Temperature and Dissolved Oxygen

Clam River Impoundment - FERC # 9185
2013 Temperature Samples



Clam River Impoundment - FERC # 9185
2013 Dissolved Oxygen Samples



**2013
Monthly
Temperature and Precipitation
Table**

**2013 Water Year Monthly Temperature and Precipitation
for
Danbury, Wisconsin**

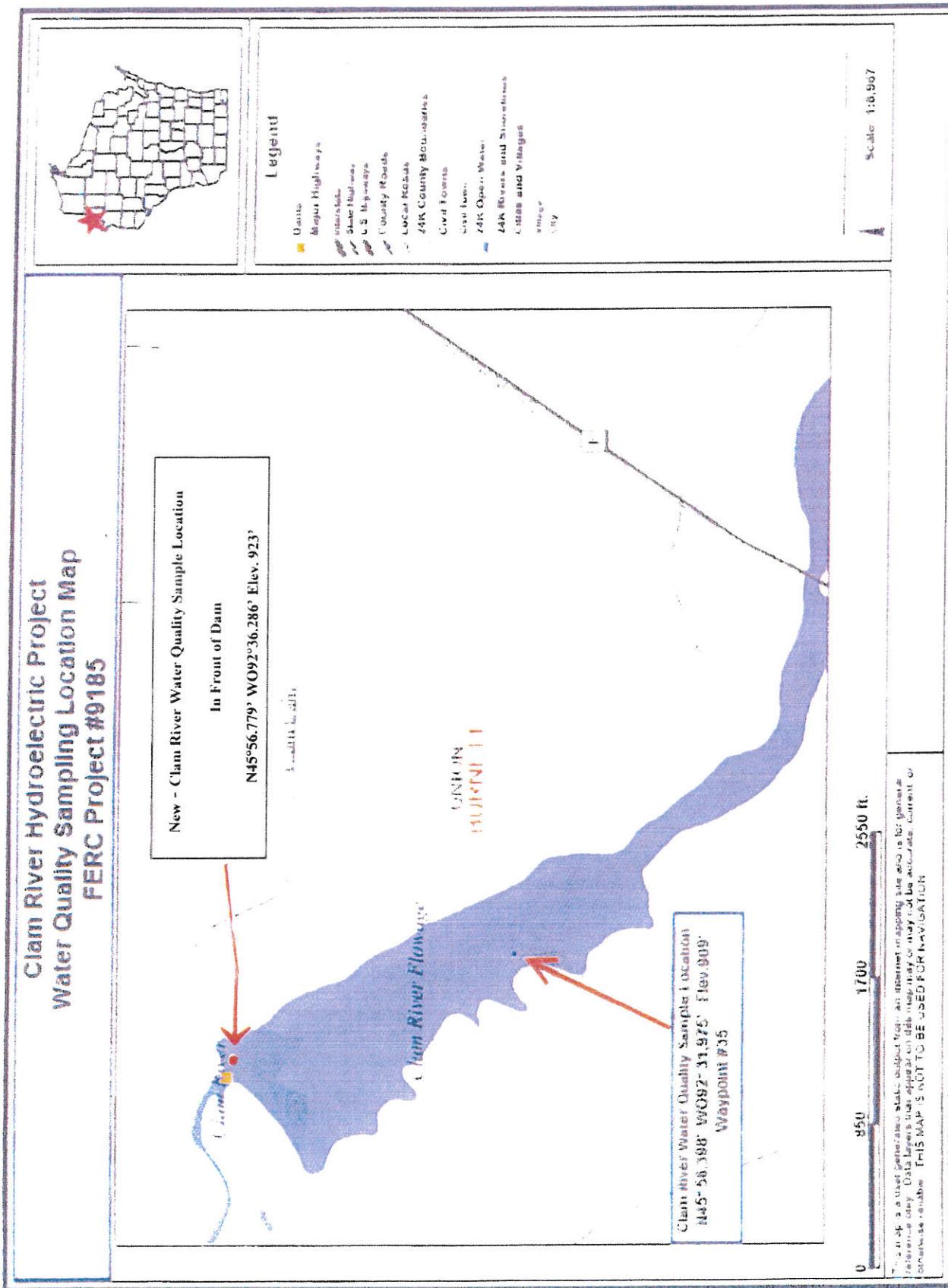
Month	Highest Temp.	Lowest Temp.	Average Temp.	Departure From Normal	Heating Degree Days	Normal Degree Days	Total Precip.	Total Snowfall	Normal Precip.	% of Normal Precipitation
October-12	74	22	42.5	-0.7	691	678	1.34	1.1	2.85	47%
November-12	53	0	30.9	2.1	1015	1088	1.33	10.1	2.09	64%
December-12	48	-7	18.4	3.6	1438	1556	1.44	13.2	1.21	119%
January-13	42	-21	12.1	1.9	1631	1691	1.39	9.2	0.96	145%
February-13	38	-22	14.6	-0.5	1405	1399	1.16	19.1	0.81	70%
March-13	53	-13	21.8	-4.1	1333	1200	2.04	25.8	1.49	137%
April-13	68	8	34.4	-5.2	908	762	5.04	50.8	2.43	207%
May-13	80	27	49.5	-1.9	471	426	3.71	Trace	3.23	115%
June-13	87	37	61.6	1.5	146	179	4.54	0.0	4.23	107%
July-13	94	47	67.8	2.0	47	63	1.73	0.0	3.85	45%
August-13	94	43	69.0	4.7	27	86	1.98	0.0	3.70	54%
September-13	88	37	59.9	4.3	168	298	1.26	0.0	4.11	31%

Source: NOAA/Duluth,
MN

**2013
Clam River
Sampling Comparison Table
2011—2013**

Clam River
Project Sampling Comparison Table
2011 Thru Current Year

**Clam River Hydroelectric Project
Sampling Location
Map**



Appendix A

May 8, 2013 Sampling Documents (Ice-Out)

IMPOUNDMENT SAMPLING LOG

2013 Water Quality Study - Clam River Hydroelectric Project - FERC #9185

HWL - 898.79
TWL - 865.20

Date: 5/8/13

Pre-Sampling Data:

PROJECT Flow - 485 CFS

Time: 1:00 Barometer: 30.01 Air Temp: 22.2 °C Wind Speed: N 8 MPH

Sky Conditions: FAIR SKIES, PERIODS OF SUNSHINE, BREEZY

Precipitation within Last 24 Hours: ND

D.O. Meter Calibration: Instrument Model Used: Hach HQ40d

Were The Batteries Changed? Yes No If Yes, When Changed: APRIL 2013

Battery Status: 90% Charge

Calibration Time: APRIL 2013 Method: Factory

Sampling Depth Profile: Measured Depth to Bottom of the Impoundment: 8.0 Meter

Secchi Disk Depth: (E0.1 Meter) 1.0 Meter Time: 1:10

Chlorophyll a (1 Meter Below Surface)

Lab Sample I.D.#:

Time	Quantity (ml)	Filtered
1:15	1000	NO

True Color (1 Meter Below Surface)

Lab Sample I.D.#:

Time	Quantity (ml)
1:17	250

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
.5 Mtr Below Surface	1:22	12.16	14.2
1 Meter	1:23	12.13	13.5
2 Meter	1:24	11.56	12.9
3 Meter	1:25	11.53	12.5
4 Meter	1:26	11.39	12.3
5 Meter	1:27	11.15	11.3
6 Meter	1:28	11.12	11.0
7 Meter	1:29	10.92	10.5
8 Meter			
.5 Mtr Above Bottom	1:33	10.91	10.1

Phosphorus

Lab Sample I.D.#:

(1 Meter Below Surface)
Time
Preserved?

1:19 H2SO4

Lab Sample I.D.#:

(1 Meter Above Bottom)
Time
Preserved?

1:01 H2SO4

Sample Location: N45° 56.779' W0°92 36.286' Elev. 923' (New)

N45° 56.398' W92° 31.975' (Old)

Comments:

Performed By: GARY RAST + NORB REHDER

Gary Rast

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.

Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

Client: Renewable World Energies
 Attn: Gary Rast
 100 State Street
 P.O. Box 264
 Neshkoro, WI 54960

Project: Clam River

201305081A NLS ID: 718338

COC: 153589:1 Matrix: SW

Collected: 05/08/13 13:15 Received: 05/09/13

Parameter

Chlorophyll, all species

Lab filtration for Chlorophyll

Result

see attached
yes

Units

Dilution
C.P.U.

LOD

0.0200-H
NA

LOQ

05/10/13

Analyzed

05/21/13

Method

721026460

Lab

721026460

Parameter

Color, APHA (true)

Result

70

Units

C.P.U.

LOD

5.0*

LOQ

0.0070*

Analyzed

05/09/13

Method

SM 2120-B 20ed

Parameter

Phosphorus, tot, as P

Result

0.069

Units

mg/L

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

Parameter

Phosphorus, tot, as P

Result

0.069

Units

mg/L

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081B NLS ID: 718339

COC: 153589:2 Matrix: SW

Collected: 05/08/13 13:17 Received: 05/09/13

Parameter

Color, APHA (true)

Result

70

Units

C.P.U.

LOD

5.0*

LOQ

0.0070*

Analyzed

05/09/13

Method

SM 2120-B 20ed

Lab

721026460

201305081C NLS ID: 718340

COC: 153589:3 Matrix: SW

Collected: 05/08/13 13:19 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

C.P.U.

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081D NLS ID: 718341

COC: 153589:4 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

mg/L

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081E NLS ID: 718342

COC: 153589:5 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

C.P.U.

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081F NLS ID: 718343

COC: 153589:6 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

C.P.U.

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081G NLS ID: 718344

COC: 153589:7 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

mg/L

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081H NLS ID: 718345

COC: 153589:8 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

C.P.U.

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081I NLS ID: 718346

COC: 153589:9 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

C.P.U.

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081J NLS ID: 718347

COC: 153589:10 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

C.P.U.

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081K NLS ID: 718348

COC: 153589:11 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

Phosphorus, tot, as P

Result

0.069

Units

C.P.U.

LOD

0.0070*

LOQ

05/10/13

Analyzed

05/10/13

Method

SM 4500P-E 20ed

Lab

721026460

201305081L NLS ID: 718349

COC: 153589:12 Matrix: SW

Collected: 05/08/13 13:21 Received: 05/09/13

Parameter

</div

Northern Lake Service, Inc.
Chlorophyll Results

Customer: Renewable World Energies
Project: 196686
Clam River

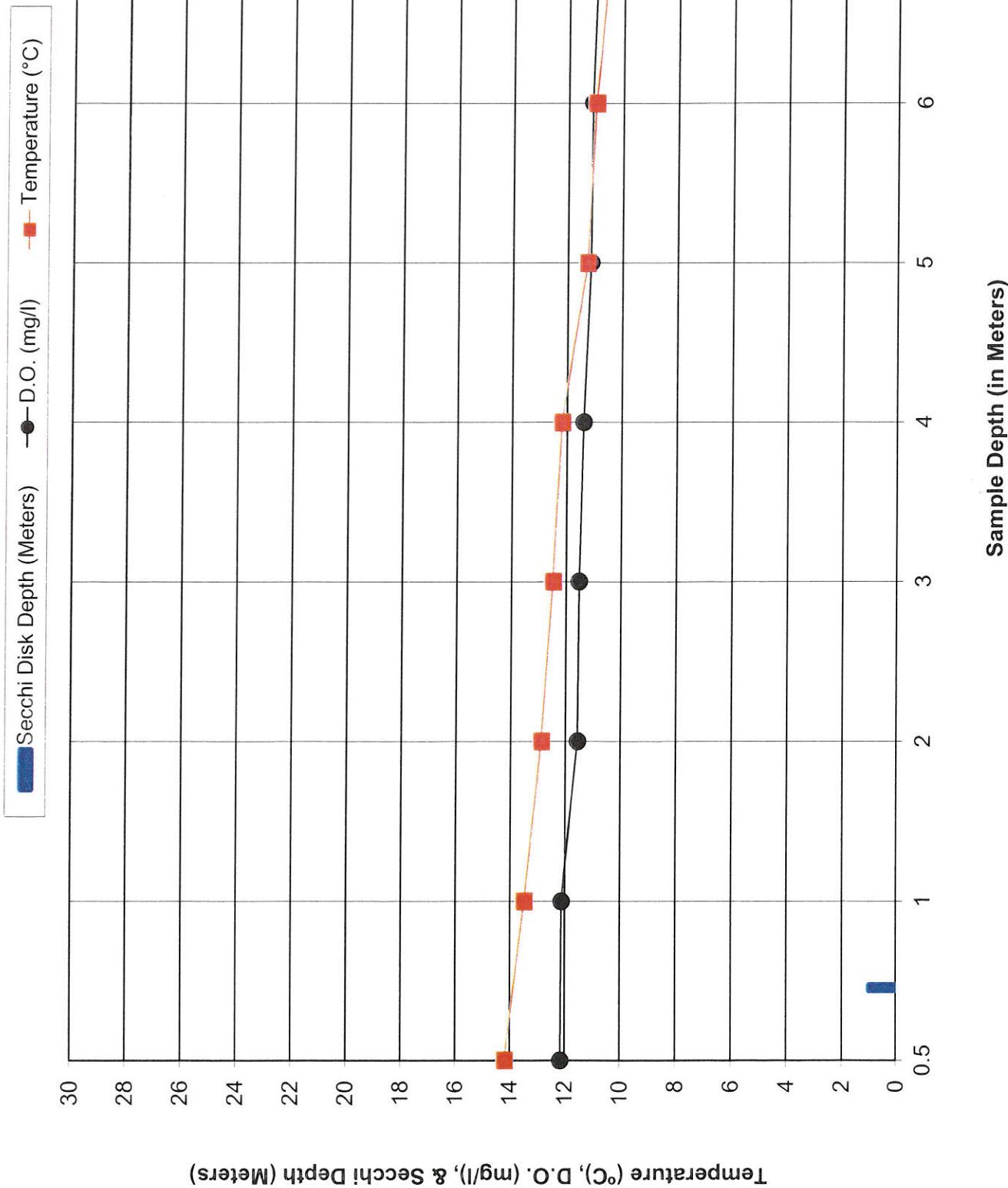
<u>Sample</u>	<u>Description</u>	<u>CC a</u> 16	<u>Pheo a</u> 1.8	<u>TC a</u> 17	<u>CC c</u> 2.9	<u>TC b</u> 0.41
718338	201305081A					

CC a = Corrected Chlorophyll a
Pheo a = Pheophytin a
TC a = Trichromatic Chlorophyll a
TC b = Trichromatic Chlorophyll b
TC c = Trichromatic Chlorophyll c
Units = $\mu\text{g/L}$ for Water, $\mu\text{g/cm}^2$ for periphyton samplers

*. The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

Clam River Impoundment - FERC # 9185

May 8, 2013 Iceout Sampling Event



Appendix B

July 10, 2013 Sampling Documents

IMPOUNDMENT SAMPLING LOG

2013 Water Quality Study - Clam River Hydroelectric Project - FERC #9185

CFS - 175
HWL - 898.92

Date: 7-10-13

Pre-Sampling Data: TWL - 863.3

Time: 10:45 Barometer: 30.03 Air Temp: 21.66 °C Wind Speed: 14 MPH G 21 MPH

Sky Conditions: Sunny Partly cloudy

Precipitation within Last 24 Hours: No

D.O. Meter Calibration: Instrument Model Used: Hach HQ40d

Were The Batterys Changed? Yes No If Yes, When Changed:

Battery Status: 75% Charge

Calibration Time: APRIL 2013 Method: Factory

Sampling Depth Profile: Measured Depth to Bottom of the Impoundment: 8.0 Meter

Secchi Disk Depth: (E0.1 Meter) 1.2 Meter Time: 10:45

Chlorophyll a (1 Meter Below Surface)

Lab Sample I.D.#: 07102013 1A		
Time	Quantity (ml)	Filtered
10:48	1000 mL	No

True Color (1 Meter Below Surface)

Lab Sample I.D.#: 07102013 1B	
Time	Quantity (ml)
10:49	250 mL

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
.5 Mtr Below Surface	10:59	7.22	24.0
1 Meter	11:00	4.90	24.1
2 Meter	11:02	2.87	24.0
3 Meter	11:04	2.63	23.9
4 Meter	11:06	2.14	23.9
5 Meter	11:08	2.02	23.8
6 Meter	11:10	1.65	23.7
7 Meter	11:12	1.15	23.7
8 Meter			
.5 Mtr Above Bottom	11:13	0.97	23.7

Phosphorus

Lab Sample I.D.#: 07102013 1C	
(1 Meter Below Surface)	
Time	Preserved?
10:50	H ₂ SO ₄

Lab Sample I.D.#: 07102013 1D	
(1 Meter Above Bottom)	
Time	Preserved?
10:51	H ₂ SO ₄

Sample Location: N45° 56.779' W0°92 36.286' Elev. 923' (New) N45° 56.398' W92° 31.975' (Old)

Comments: 11:01 1.5 - 3.23 24° 11:03 2.5 - 2.54 24°

11:05 3.5 - 2.54 23.9° 11:07 4.5 - 1.30 23.8°

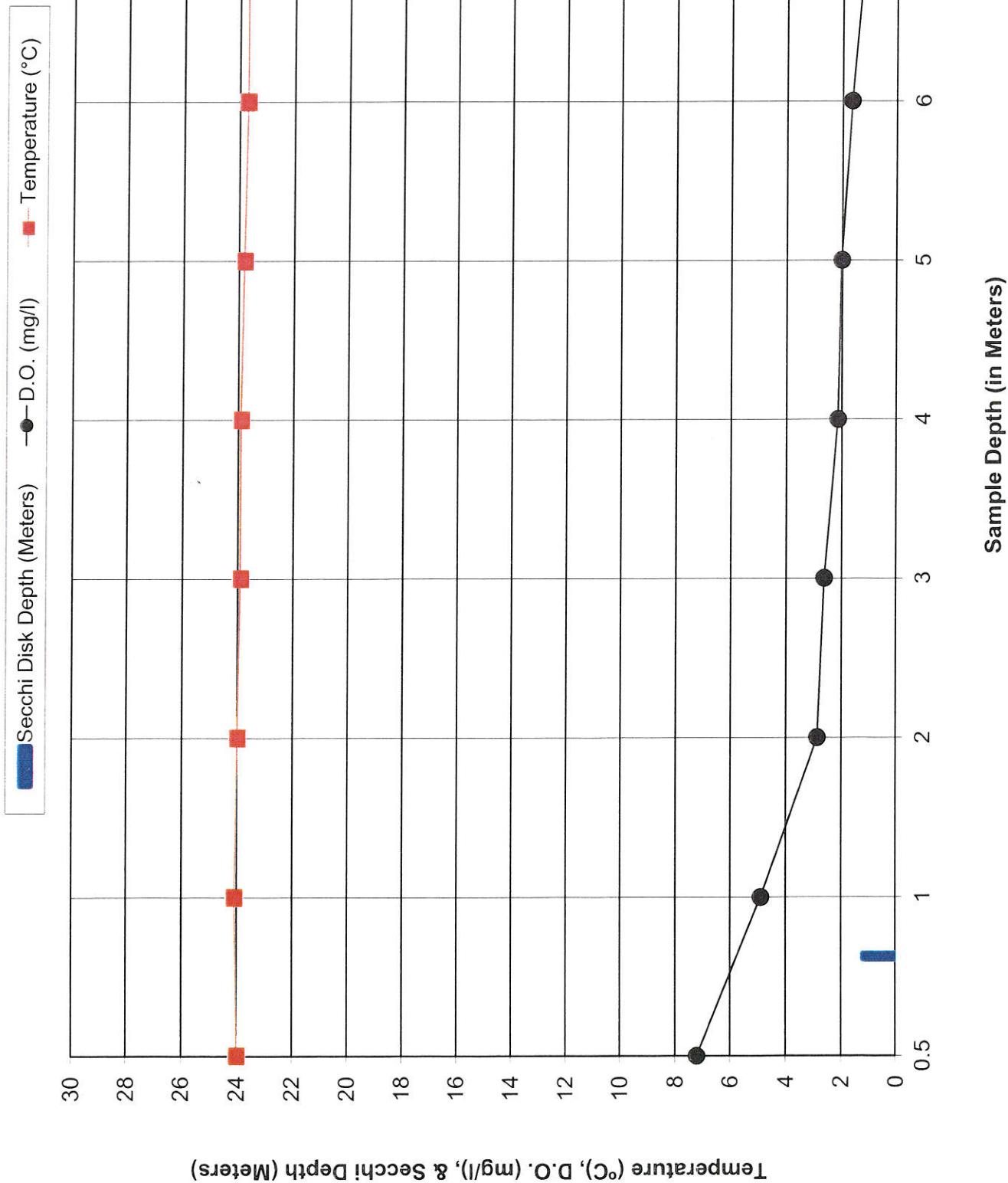
11:09 5.5 - 2.01 23.8° 11:11 6.5 - 1.69 23.7°

Performed By:

ANITA R. + GARY R.

Clam River Impoundment - FERC # 9185

July 10, 2013 Sampling Event



NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3060

Client:
Renewable World Energies
 Attn: Gary Rast
 100 State Street
 P.O. Box 264
 Neshkoro, WI 54960

ANALYTICAL REPORT



JUL 1 8 2013

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. W100034
 Printed: 07/15/13 Code: NNNN-S Page 1 of 1
 NLS Project: 200463
 NLS Customer: 102823
 Phone: 855 994 9376

Project: Clam River

071020131A NLS ID: 730260	
COC: 162642:1 Matrix: SW	Received: 07/11/13
Collected: 07/10/13 10:48	Parameter
Chlorophyll, all species	Result see attached yes
Lab filtration for Chlorophyll	Units
071020131B NLS ID: 730261	Dilution
COC: 162642:2 Matrix: SW	LOD
Collected: 07/10/13 10:49	Received: 07/11/13
Parameter	LOQ
Color, APHA (true)	Analyzed
071020131C NLS ID: 730262	Method
COC: 162642:3 Matrix: SW	SM 2120-B 20ed
Collected: 07/10/13 10:50	Received: 07/11/13
Parameter	Method
Phosphorus, tot, as P	SM 4500P-E 20ed
071020131D NLS ID: 730263	Lab
COC: 162642:4 Matrix: SW	721026460
Collected: 07/10/13 10:51	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131E NLS ID: 730264	
COC: 162642:5 Matrix: SW	
Collected: 07/10/13 10:52	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131F NLS ID: 730265	
COC: 162642:6 Matrix: SW	
Collected: 07/10/13 10:53	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131G NLS ID: 730266	
COC: 162642:7 Matrix: SW	
Collected: 07/10/13 10:54	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131H NLS ID: 730267	
COC: 162642:8 Matrix: SW	
Collected: 07/10/13 10:55	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131I NLS ID: 730268	
COC: 162642:9 Matrix: SW	
Collected: 07/10/13 10:56	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131J NLS ID: 730269	
COC: 162642:10 Matrix: SW	
Collected: 07/10/13 10:57	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131K NLS ID: 730270	
COC: 162642:11 Matrix: SW	
Collected: 07/10/13 10:58	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131L NLS ID: 730271	
COC: 162642:12 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131M NLS ID: 730272	
COC: 162642:13 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131N NLS ID: 730273	
COC: 162642:14 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131O NLS ID: 730274	
COC: 162642:15 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131P NLS ID: 730275	
COC: 162642:16 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131Q NLS ID: 730276	
COC: 162642:17 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131R NLS ID: 730277	
COC: 162642:18 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131S NLS ID: 730278	
COC: 162642:19 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131T NLS ID: 730279	
COC: 162642:20 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131U NLS ID: 730280	
COC: 162642:21 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131V NLS ID: 730281	
COC: 162642:22 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131W NLS ID: 730282	
COC: 162642:23 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131X NLS ID: 730283	
COC: 162642:24 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131Y NLS ID: 730284	
COC: 162642:25 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131Z NLS ID: 730285	
COC: 162642:26 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AA NLS ID: 730286	
COC: 162642:27 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AB NLS ID: 730287	
COC: 162642:28 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AC NLS ID: 730288	
COC: 162642:29 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AD NLS ID: 730289	
COC: 162642:30 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AE NLS ID: 730290	
COC: 162642:31 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AF NLS ID: 730291	
COC: 162642:32 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AG NLS ID: 730292	
COC: 162642:33 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AH NLS ID: 730293	
COC: 162642:34 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AI NLS ID: 730294	
COC: 162642:35 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AJ NLS ID: 730295	
COC: 162642:36 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AK NLS ID: 730296	
COC: 162642:37 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AL NLS ID: 730297	
COC: 162642:38 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AM NLS ID: 730298	
COC: 162642:39 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AN NLS ID: 730299	
COC: 162642:40 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AO NLS ID: 730300	
COC: 162642:41 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AP NLS ID: 730301	
COC: 162642:42 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AQ NLS ID: 730302	
COC: 162642:43 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AR NLS ID: 730303	
COC: 162642:44 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AS NLS ID: 730304	
COC: 162642:45 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AU NLS ID: 730305	
COC: 162642:46 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AV NLS ID: 730306	
COC: 162642:47 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AW NLS ID: 730307	
COC: 162642:48 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AX NLS ID: 730308	
COC: 162642:49 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AY NLS ID: 730309	
COC: 162642:50 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131AZ NLS ID: 730310	
COC: 162642:51 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BA NLS ID: 730311	
COC: 162642:52 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BB NLS ID: 730312	
COC: 162642:53 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BC NLS ID: 730313	
COC: 162642:54 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BD NLS ID: 730314	
COC: 162642:55 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BE NLS ID: 730315	
COC: 162642:56 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BF NLS ID: 730316	
COC: 162642:57 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BG NLS ID: 730317	
COC: 162642:58 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BH NLS ID: 730318	
COC: 162642:59 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BI NLS ID: 730319	
COC: 162642:60 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BJ NLS ID: 730320	
COC: 162642:61 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BK NLS ID: 730321	
COC: 162642:62 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BL NLS ID: 730322	
COC: 162642:63 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BM NLS ID: 730323	
COC: 162642:64 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BN NLS ID: 730324	
COC: 162642:65 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BO NLS ID: 730325	
COC: 162642:66 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BP NLS ID: 730326	
COC: 162642:67 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BQ NLS ID: 730327	
COC: 162642:68 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BR NLS ID: 730328	
COC: 162642:69 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BS NLS ID: 730329	
COC: 162642:70 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BT NLS ID: 730330	
COC: 162642:71 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BU NLS ID: 730331	
COC: 162642:72 Matrix: SW	
Collected: 07/10/13 10:59	Received: 07/11/13
Parameter	
Phosphorus, tot, as P	
071020131BV NLS ID: 730332	
COC: 1	

Northern Lake Service, Inc.
Chlorophyll Results

Customer: Renewable World Energies
Project: 200463
Clam River

<u>Sample</u>	<u>Description</u>	<u>CC a</u>	<u>Pheo a</u>	<u>TC a</u>	<u>TC b</u>
730260	071020131A	22	1.4	23	0.0*

CC a = Corrected Chlorophyll a
Pheo a = Pheophytin a
TC a = Trichromatic Chlorophyll a
TC b = Trichromatic Chlorophyll b
TC c = Trichromatic Chlorophyll c
Units = ug/L for Water, ug/cm² for periphyton samplers

*: The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

TC c
2

TC b
0.0*

TC a
23

Pheo a
1.4

CC a
22

Appendix C

August 7, 2013 Sampling Documents

IMPOUNDMENT SAMPLING LOG

2013 Water Quality Study - Clam River Hydroelectric Project - FERC #9185

Pre-Sampling Data:

HWL - 878.80
TWL - 863.30Date: 8/7/13

CFS - 175

Time: 12:15 Barometer: 29.98 Air Temp: 21 °C Wind Speed: NW 12 MPH G 16Sky Conditions: FAIR, CLEAR, BRIGHT SUNSHINEPrecipitation within Last 24 Hours: YES

D.O. Meter Calibration: Instrument Model Used: Hach HQ40d

Were The Batterys Changed? Yes No If Yes, When Changed: _____Battery Status: 85% ChargeCalibration Time: APRIL 2013 Method: FactorySampling Depth Profile: Measured Depth to Bottom of the Impoundment: 8.0 MeterSecchi Disk Depth: (E0.1 Meter) • 5 Meter Time: 12:40

Chlorophyll a (1 Meter Below Surface)

Lab Sample I.D.#: 08072013-1A		
Time	Quantity (ml)	Filtered
12:30	000	No

True Color (1 Meter Below Surface)

Lab Sample I.D.#: 08072013-1B	
Time	Quantity (ml)
12:32	250

D.O. Sample Data

Depth	Time	D.O. (mg/l)	°C
.5 Mtr Below Surface	12:41	12.47	21.9
1 Meter	12:42	11.31	21.7
2 Meter	12:43	9.4	21.4
3 Meter	12:44	7.83	21.2
4 Meter	12:45	6.47	21.0
5 Meter	12:46	4.94	20.7
6 Meter	12:47	4.37	20.5
7 Meter	12:51	4.14	20.5
8 Meter			
.5 Mtr Above Bottom	12:52	3.78	20.4

Phosphorus

Lab Sample I.D.#: 08072013-1C	
(1 Meter Below Surface)	
Time	Preserved?
12:34	H2504

Lab Sample I.D.#: 08072013-1D	
(1 Meter Above Bottom)	
Time	Preserved?
12:35	H2504

Sample Location: N45° 56.779' W0° 92 36.286' Elev. 923' (New) N45° 56.398' W92° 31.975' (Old)

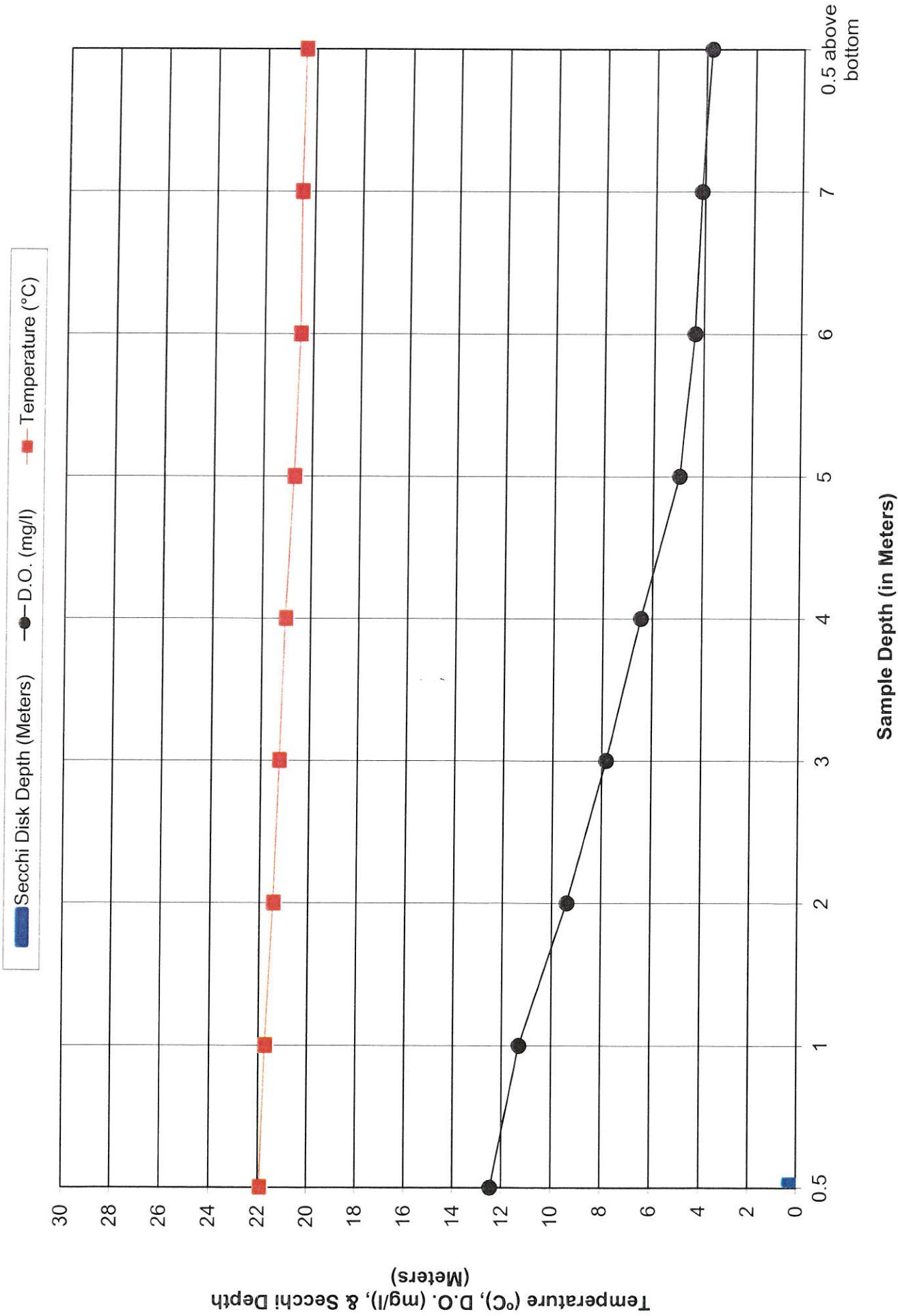
Comments: 12:47 4.5-5.3 20.7° 12:48 5.5-4.55 20.5°12:50 6.5 - 4.29 20.5°

Performed By:

GARY PHOT & PEG RICHARDSON G.P.R.

Clam River Impoundment - FERC # 9185

August 7, 2013 Sampling Event



NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-3060

Client:
Renewable World Energies
 Attn: Gary Rast
 100 State Street
 P.O. Box 264
 Neshkoro, WI 54960

ANALYTICAL REPORT



WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. WI00034
 Printed: 08/14/13 Code: NNNN-S Page 1 of 1
 NLS Project: 202222
 NLS Customer: 102823
 Phone: 855 994 9376

Project: Clam River

08072013-1A NLS ID: 735891	
COC: 151380:1 Matrix: Sw	Received: 08/08/13
Collected: 08/07/13 12:30	
Parameter	
Chlorophyll, all species	Result see attached yes
Lab filtration for Chlorophyll	
08072013-1B NLS ID: 735892	
COC: 151380:2 Matrix: SW	Received: 08/08/13
Collected: 08/07/13 12:32	
Parameter	
Color, APHA (true)	Result 100
	Units C.P.U.
	Dilution 5
	LOD 25*
	LOQ 0.0070*
	Analyzed 08/08/13
	Method SM 2120-B 20ed
	Lab 721026460
08072013-1C NLS ID: 735893	
COC: 151380:3 Matrix: SW	Received: 08/08/13
Collected: 08/07/13 12:34	
Parameter	
Phosphorus, tot. as P	Result 0.11
	Units mg/L
	Dilution 1
	LOD 0.0070*
	LOQ 0.0070*
	Analyzed 08/13/13
	Method SM 4500P-E 20ed
	Lab 721026460
08072013-1D NLS ID: 735894	
COC: 151380:4 Matrix: Sw	Received: 08/08/13
Collected: 08/07/13 12:35	
Parameter	
Phosphorus, tot. as P	Result 0.098
	Units mg/L
	Dilution 1
	LOD 0.0070*
	LOQ 0.0070*
	Analyzed 08/13/13
	Method SM 4500P-E 20ed
	Lab 721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

ND = Not Detected (< LOD)
 %DWB = (mg/kg DWB) / 100000
 NA = Not Applicable
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:
 R. T. Krueger
 President

Ronald T. Krueger

Northern Lake Service, Inc.
Chlorophyll Results

Customer: Renewable World Energies

Project: 202222

Clam River

<u>Sample</u>	<u>Description</u>	<u>CC a</u> 46	<u>Pheo a</u> 0.0*	<u>TC a</u> 48	<u>TC b</u> 0.0*	<u>TC c</u> 3.2
735891	08072013-1A					

CC a = Corrected Chlorophyll a
 Pheo a = Pheophytin a
 TC a = Trichromatic Chlorophyll a
 TC b = Trichromatic Chlorophyll b
 TC c = Trichromatic Chlorophyll c
 Units = ug/L for Water, ug/cm² for periphyton samplers

*: The complex calculations used to differentiate the various chlorophyll species magnify error at low concentrations and sometimes produce negative values, which are reported as 0.0 on this report.

Appendix D

Agency Correspondence

Gary Rast

 COPY

From: Utrup, Nick <nick_utrup@fws.gov>
Sent: Tuesday, October 22, 2013 8:45 AM
To: Gary Rast
Cc: Laatsch, Cheryl - DNR (Cheryl.Laatsch@Wisconsin.gov); Aneta Rietveld
Subject: Re: Clam River Draft 13 WQ

Thanks Gary.

Nick

Nicholas J. Utrup
U.S. Fish and Wildlife Service
Wisconsin/Minnesota Ecological Services Field Office
4101 American Boulevard East
Bloomington, MN 55425

Office: 612-725-3548 Ext. 2204
Cell: 920-530-9937
FAX: 612-725-3609
Email: Nick_Utrup@fws.gov

On Wed, Oct 2, 2013 at 1:50 PM, Gary Rast <grast@rwehydro.com> wrote:

Cheryl and Nick,

Attached is your copy of the 2013 Draft WQ Report including submittal letter for Clam River in electronic form as requested.

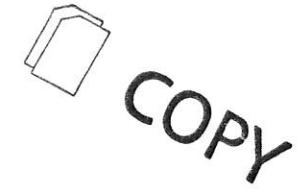
Gary

Gary Rast

Regulatory/Compliance Manager

Gary Rast

From: Gary Rast
Sent: Tuesday, October 08, 2013 10:53 AM
To: 'Laatsch, Cheryl - DNR'; Nick Utrup (nick_utrup@fws.gov)
Cc: Aneta Rietveld
Subject: RE: Clam River



From: Laatsch, Cheryl - DNR [mailto:Cheryl.Laatsch@wisconsin.gov]
Sent: Tuesday, October 08, 2013 10:48 AM
To: Gary Rast; Nick Utrup (nick_utrup@fws.gov)
Cc: Aneta Rietveld
Subject: RE: Clam River

Thanks for the report. The data looks good.

Recommendation: We would like RWE to obtain a SWIMS ID, and enter the monitoring data into the statewide database. This will reduce reporting needs, and provide better use of data across the state.

We can help you set up your account and upload the information. Please contact me to help get you set up.

Thanks

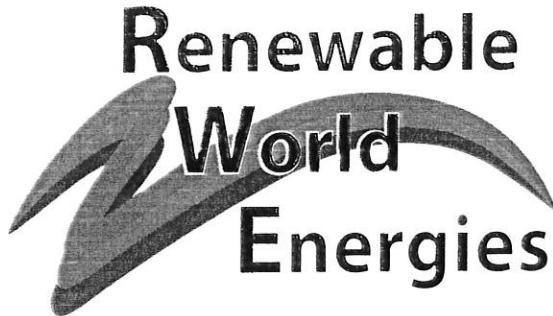
Cheryl Laatsch
Statewide FERC Coordinator
Wisconsin Dept of Natural Resources
N7725 Hwy 28
Horicon WI 53032
(T) 920-387-7869 (Fax) 920-387-7888
Cheryl.laatsch@wisconsin.gov

From: Gary Rast [mailto:grast@rwehydro.com]
Sent: Thursday, October 03, 2013 3:09 PM
To: Laatsch, Cheryl - DNR; Nick Utrup (nick_utrup@fws.gov)
Cc: Aneta Rietveld
Subject: Danbury Draft 13 WQ

Cheryl and Nick,

Attached is your copy of the 2013 Draft WQ Report including submittal letter for Danbury in electronic form as requested.

Gary



 COPY

October 2, 2013

Mr. Nick Utrup
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
2661 Scott Tower Drive
New Franken, WI 54229

Ms. Cheryl Laatsch
Statewide FERC Coordinator
Wisconsin Dept. of Natural Resources
N7725 HWY 28
Horicon, WI 53032

Re: Clam River Hydroelectric Project
FERC Project Number 9185
Flambeau Hydro LLC
Draft Report 2013 Water Quality Monitoring Data

Dear Agency:

Purpose

On behalf of Flambeau Hydro LLC “Flambeau” (Licensee), Renewable World Energies, LLC is submitting a copy of the Draft Report 2013 Water Quality Monitoring Data for the Clam River Hydroelectric Project. Furthermore, the Licensee is requesting your comments should you have any to offer on the report. The Federal Energy Regulatory Commission “FERC” issued a License to Flambeau on July 24, 2006. 2013 was the sixth year that monitoring was conducted since the license was issued. The submitted report is a requirement of that License pursuant to License Article 401 WQC, Condition K. Nothing out of the ordinary was experienced during the monitoring season except as noted in the report.

Conclusion

The Federal Energy Regulatory Commission’s regulations allow for a 30 day formal review and comment period. Thank you in advance for providing your responses in a timely manner so we can include your comments and recommendations, as appropriate, into our report.

Corporate Office
P.O. Box 264
100 S. State Street
Neshkoro, WI 54960
Fax: 920-293-4100

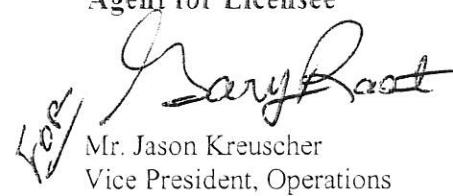
Phone: 855-99HYDRO
(855-994-9376)
www.renewableworldenergies.com

Administrative Office
1001 Stephenson Street
Norway, MI 49870
Fax: 906-563-9344



If you have any questions concerning the report, please contact Mr. Gary Rast at the Renewable World Energies, LLC offices @ 855-994-9376 ext. 105, or by email at: grast@rwehydro.com.

Sincerely,
Renewable World Energies, LLC
Agent for Licensee


Mr. Jason Kreuscher
Vice President, Operations

Attachment: Draft Report 2013 Water Quality Monitoring Data - October 1, 2013

Cc: RWE, Corporate

Gary Rast

From: Gary Rast
Sent: Wednesday, August 07, 2013 5:19 PM
To: Laatsch, Cheryl - DNR (Cheryl.Laatsch@Wisconsin.gov); Nick Utrup (nick_utrup@fws.gov)
Cc: 'Jason Kreuscher'; Ben Richard; 'nrehder@renewableworldenergies.com'
Subject: Clam River and Danbury Below Std DO

Cheryl and Nick,

Did the WQ at Clam River and Danbury. Experienced some below standard DO measurements. Danbury fell below standard at 5 meters (4.96) and fell even further at .5 meter above bottom (1.9).
Clam River fell below standard at 5 meters (4.94) and on down to (3.78) .5 meters above bottom.
Nothing else out of the ordinary. As always a full report at the end of the year. Thanks

Gary

Gary Rast
Regulatory/Compliance Manager



Renewable World Energies, LLC
100 S. State Street
P.O. Box 264
Neshkoro, WI 54960
Phone: 855-994-9376 Ext. 105
Fax: 920-293-4100
Cell: 920-570-0995
E-mail: grast@rwehydro.com

Gary Rast

From: Gary Rast
Sent: Wednesday, July 10, 2013 7:56 PM
To: Laatsch, Cheryl - DNR (Cheryl.Laatsch@Wisconsin.gov); Nick Utrup (nick_utrup@fws.gov)
Cc: 'Jason Kreuscher'; Ben Richard; Shawn Wille; Aneta Rietveld; David Anderson
Subject: Below Standard DO AT Crowley, Clam River, And Danbury

Cheryl and Nick,

Performed the water quality sampling at the Flambeau projects on the 9th of July – Flambeau Upper/Flambeau Lower/Flambeau Pixley – All DO readings above 5.0 mg/l. However, the Flambeau Crowley project had DO readings below standard beginning at the 15' level of 4.91 mg/l and 24.8°C. Readings were then taken every 1' to 20' and then .5' above the bottom with DO dropping to a low of 3.83 mg/l and 24.3°C at .5' above the bottom.

Performed water quality sampling at the Clam River project on the 10th of July. DO dropped below standard at the 1 meter level with a reading of 4.90 mg/l and 24.1°C. Readings were taken every ½ meter to a depth of 7 meters and the .5 meters above the bottom. DO was the lowest at .5 meter above bottom with a reading of .97 mg/l and 23.7°C.

Performed water quality sampling at the Danbury project as well on the 10th of July. DO dropped below standard at the 1.5 meter level with a reading of 4.84 mg/l and 24.6°. Reading were taken every ½ meter to 5 meters and then .5 meters above bottom. Do was the lowest at the .5 meter above bottm with a reading of 4.37 mg/l and 24.1°C.

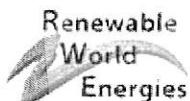
Full results will be provided in the year end Water Quality Monitoring Reports for each project.

Additional note: Winter project results from the 8th of July were all above standard.

Thanks

Gary

Gary Rast
Regulatory/Compliance Manager



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Document Content(s)

13-12-02 GGR CLRV WQ DATA TO FERC.PDF.....1-39