



February 4, 2019

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

**RE: Flambeau Upper FERC Project Number 2640
Flambeau Hydro LLC
Final Report 2019 Purple Loosestrife Inventory Report**

Dear Ms. Bose:

On behalf of Flambeau Hydro LLC, "Flambeau" (Licensee), Renewable World Energies, LLC (RWE) is submitting a copy of the *Final Report 2019 Purple Loosestrife Inventory Report* for the Flambeau Upper Hydroelectric Project. The report is a requirement of Flambeau's Federal license pursuant to article 412. Monitoring was conducted on August 14, 2019. No out of the ordinary issues were encountered and no Purple Loosestrife was observed. The draft report was sent to the agencies by an attachment to an e-mail on November 26, 2019 for review and comment. No comment was received pertaining to the Flambeau Upper report from the DNR, though a comment did reference the Flambeau Lower (P-2421) report. No comments have been received from the USFWS. The next scheduled monitoring event will be conducted in 2020.

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.

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



Sincerely,
Renewable World Energies, LLC
Agent for Licensee

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

FOC Mr. Jason Kreuzscher
Vice President

Attachment: Flambeau Upper Final Purple Loosestrife Inventory Report
Correspondence

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

2019 Purple Loosestrife Inventory
for
Flambeau Upper Hydroelectric Project
FERC Project #2640
Flambeau Hydro, LLC
Price County, Wisconsin

Submitted by:



429 River Lane, P.O. Box 27
Amasa, Michigan 49903
Phone: 906-822-7889

Summary of Purple Loosestrife Inventory for Flambeau Upper Hydroelectric Project, FERC #2640

On July 24, 2019, White Water Associates, Inc. performed an inventory of purple loosestrife at the Flambeau Upper Project. The method of inventory approved and modified by a Federal Energy Regulatory Commission (FERC) Order (June 18, 2003) was defined as follows:

While purple loosestrife is blooming in mid-July to early August, the inventory should be conducted using a boat to survey the impoundment above the dam within the Project Boundary and on foot or by boat below the dam within the Project Boundary. County wetland maps may be used to determine other areas where Purple Loosestrife could be found on lands owned by Flambeau Hydro, LLC (FHLLC) within the Project Boundary. Lands owned by FHLLC within the Project Boundary will be surveyed on foot. A pair of binoculars should be used to search for the purple flowered spikes of the plant. When plants are located, the person(s) inventorying should get close enough to make a positive identification without disturbing the plants or the immediate area around the plants as this could cause them to spread. A GPS will be used to establish a GPS coordinate for the location of the plants. If it is not possible to get close enough to establish an accurate location, an approximate location will be established with reference to an established GPS coordinate. The plants should be inventoried by marking and numbering the location on a project map along with notes approximating size of plants, stand area, percent cover, stem density, plant density, and location with reference to established GPS coordinates. Photos and/or videotape will be taken of the largest occurrences.

2019 Observations

The Flambeau Upper Project boundary was divided into three different areas; *the impoundment* (from just downstream to the last rapids before the impoundment to the dam), *the power canal/bypassed reach* (the power canal from the dam to the powerhouse, and the bypassed reach area from the dam to the single lane service bridge just upstream of the HWY 182 bridge), and *the tailrace* (from the single lane service bridge just upstream of the HWY 182 bridge to the HWY 182 bridge).

The impoundment was surveyed by boat and no purple loosestrife plants were found.

The power canal/bypassed reach was surveyed on foot no purple loosestrife plant was found.

The tailrace was surveyed by boat and no purple loosestrife plants were observed.

Appendix A provides tables of historical purple loosestrife data as well as observations made in 2019. Appendix B provides scans of field data sheets.

Appendix A

Tables

Table 1. GPS points for purple loosestrife inventory at Flambeau Upper, FERC#2640.					
<i>GPS Point</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Plant Height</i>	<i>Stand Area</i>	<i>Comments</i>
FLUPPL001	45.94678	-90.43405	N/A	N/A	2002-first observed. 15-25 plants. 2003-discovered plants were not purple loosestrife but winged loosestrife. 2004-plants removed. 2007-reoccurrence of plants. 2008-2015- no plants observed. 2016-no plants observed. 2017-no plants observed. 2018-no plants observed 2019- no plant observed.
FLUPPL002	45.93593	-90.44344	N/A	N/A	2006-first observed. 2007-plants observed. 2008-2015-no plants observed. 2016-no plants observed. 2017-no plants observed. 2018-no plants observed. 2019- no plant observed.
FLUPPL003 (FLUP PLA)	45.93397	-90.44525	3'	1'x1'	2016-first observed. 1 plant was observed and pulled 2017-1 plant observed and removed. 2018- no plant observed. 2019- no plant observed.

Appendix B

Data Sheets

Purple Loosestrife Survey

Upper Humber Hydroelectric Project – FERC # 2690 Page 1 of 2

Date 7-24-19 Conducted By Anna Strie Ryan Wambol

HWL 148.62 TWL 146.75 CFS 7600 Equipment Used: Canoe GPS Boat

Air Temp: 58° Wind Speed: 0 mph Barometer: 30.14 Sky Conditions: Clear

Time Survey Started 7:48 Time Survey Ended 9:55 Boat (14ft or Canoe) and/or Foot

Latitude Start Boat Landing Longitude End Boat Landing

Location of Survey Area: Tailrace Bypass Reach Impoundment FHLLC Property

Description of Location _____

Historic Info: None

Purple Loosestrife Found: Yes or No

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Other Species Observed:

2 Loons, Painted turtle, 2 Trumpeter swans, Bald Eagle, Kingfishers
Dead waterbirds, 172 Canadian geese

Purple Loosestrife Survey

Upper Flambeau Hydroelectric Project – FERC # 2040 Page 2 of 2
 Date 7-27-19 Conducted By Angie Spivey Ryan Warbler
 HWL 1486.62 TWL 1487.5 CFS 760 Equipment Used: Canon binoculars
 Air Temp: 65°F Wind Speed: 0 Barometer: 30.1 Sky Conditions: Clear
 Time Survey Started 10:00 Time Survey Ended 10:15 Boat (14ft or Canoe) and/or Foot (Foot)
 Latitude Start Dam Longitude End _____
 Location of Survey Area: Tailrace Bypass Reach Impoundment FHLLC Property
 Description of Location _____
 Historic Info: _____
 Purple Loosestrife Found: Yes or No (No)

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Information					
Site					
Time					
Photo ID					
Location					
Single or Multi-stem					
# of Plants					
Acreage est.					
Stand Area Density					
Size Colony S=0-5, M=6-50, L=>50~					
Plant Height ~ Ft					
Flowering %					
Beetle Feeding?					
Plant Vigor (Very poor to good)					
Plant Removed (explain)					

Plant Removed (explain) _____
 Plants Observed: _____

FW: Crowley (P-2473) Pixley (P-2395) Upper (P-2640) Lower (P-2421) 2017 Purple Loosestrife Draft Reports

Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>

Thu 12/5/2019 11:23 AM

To: Brian Kreuzscher <bkreuscher@rwehydro.com>

Cc: Mushel, Joelle A - DNR <Joelle.Mushel@wisconsin.gov>

Hi Brian -

FERC 2421 Flambeau Lower has a single location of PL (Data Point FLLWPL004.) This seems like this is the second year where it was too big to hand pull. We are asking that you go plan ahead of time to have proper tools and clippers to cut the plant and prevent the seeds from spreading. Small stands of plants should be removed.

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



From: Wirt, Alan W - DNR <Alan.Wirt@wisconsin.gov>

Sent: Monday, December 02, 2019 10:04 AM

To: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>; Mushel, Joelle A - DNR <Joelle.Mushel@wisconsin.gov>

Subject: RE: Crowley (P-2473) Pixley (P-2395) Upper (P-2640) Lower (P-2421) 2017 Purple Loosestrife Draft Reports

Cheryl

Thank you for your time in this matter.

We are committed to service excellence.

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

Alan W. Wirt
Water Resource Management Specialist
Wisconsin Department of Natural Resources

Rhineland, Wisconsin 54501
Office: 715-365-8905
Cell Phone: 715-892-5413
Email: Alan.Wirt@wisconsin.gov



From: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>
Sent: Friday, November 29, 2019 9:57 AM
To: Wirt, Alan W - DNR <Alan.Wirt@wisconsin.gov>; Mushel, Joelle A - DNR <Joelle.Mushel@wisconsin.gov>
Subject: FW: Crowley (P-2473) Pixley (P-2395) Upper (P-2640) Lower (P-2421) 2017 Purple Loosestrife Draft Reports

Hi Al – Please see the email below and the various attachments for the PL reports. Please let me know if you have any concerns or comments or changes. I can have Joelle work with RWE on using the forms to report PL. Comments due Dec 10th.

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



From: Brian Kreuzscher <bkreuscher@rwehydro.com>
Sent: Tuesday, November 26, 2019 8:10 PM
To: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>; Nick Utrup <nick_utrup@fws.gov>
Subject: Crowley (P-2473) Pixley (P-2395) Upper (P-2640) Lower (P-2421) 2017 Purple Loosestrife Draft Reports

Cheryl and Nick,

Attached are copies of the Purple Loosestrife Draft Reports for the surveys conducted at Flambeau Upper (P-2640), Flambeau Lower (P-2421), Flambeau Pixley (P-2395) and Flambeau Crowley (P-2473).

Last year there were comments about using a standard reporting form. We didn't get around to discussing using that going forward. This year there were no subjective comments regarding Purple Loosestrife that wasn't pulled. All instances that were found were pulled except a single observance at the Lower project which was too large to pull.

Please return any comments on the draft reports to me within 30 days.

Thanks

Brian Kreuzer

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

Document Content(s)

20-02-04 BRK FLUP Final P L Rpt To FERC ALL.PDF.....1-12