



January 8, 2021

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 2020 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 2020 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 July 22, 2020. 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 23, 2020 for review and comment. The DNR did send an email that they have no comments to provide. No comments have been received from the USFWS. The next scheduled monitoring event will be conducted in 2021.

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.

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Sincerely,
Renewable World Energies, LLC
Agent for Licensee

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

Handwritten initials "FOR" in black ink, written in a cursive style.

Mr. Jason Kreuzscher
Vice President

Attachment: Flambeau Upper Final Purple Loosestrife Inventory Report
Correspondence

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

2020 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 22, 2020, 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.

2020 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. 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
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.
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.

Appendix B

Data Sheets

Purple Loosestrife Survey

Upper Flambeau Hydroelectric Project – FERC # 2640 Page 1 of 2

Date 7-22-2020 Conducted By Breanna Kemppainen Sean Caron

HWL 18.13 TWL 14.76 CFS 820 Equipment Used: GPS Binocular Camera

Air Temp: 5°C Wind Speed: www 6 Barometer: 29.91 Sky Conditions: 100% clouds

Time Survey Started 7:47 Time Survey Ended 8:45 Boat (14ft) (or Canoe) and/or Foot

Latitude Start BL Longitude End _____

Location of Survey Area: Tailrace _____ Bypass Reach _____ Impoundment FHLLC Property _____

Description of Location _____

Historic Info: _____

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:

Purple Loosestrife Survey

Upper Flambeau

Hydroelectric Project – FERC # 2640

Page 2 of 2

Date 7-22-2020 Conducted By Breanna Kemppainen Sean Coran

HWL 44.67 TWL 47.6 CFS 870 Equipment Used: GPS, binoculars, camera

Air Temp: 58°C Wind Speed: www 5 Barometer: 29.91 Sky Conditions: 100% clouds

Time Survey Started 8:45 Time Survey Ended 9:00 Boat (14ft or Canoe) and/or Foot (Foot)

Latitude Start _____ Longitude End _____

Location of Survey Area: Tailrace Bypass Reach Impoundment _____ FHLLC Property

Description of Location _____

Historic Info: _____

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:

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

Haller, Macaulay G - DNR <macaulay.haller@wisconsin.gov>

Mon 12/21/2020 9:23 AM

To: Brian Kreuzscher <bkreuscher@rwehydro.com>

Cc: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>; Haller, Macaulay G - DNR <macaulay.haller@wisconsin.gov>; Nick Utrup <nick_utrup@fws.gov>

Hi Brian,

Thank you for the opportunity to comment on the Purple Loosestrife Draft Reports for Flambeau Upper (P-2640), Flambeau Lower (P-2421), Flambeau Pixley (P-2395) and Flambeau Crowley (P-2473).

The department does not have any comments to provide at this time.

Macaulay Haller

Wisconsin Department of Natural Resources

Macaulay.Haller@wisconsin.gov

From: Brian Kreuzscher <bkreuscher@rwehydro.com>

Sent: Monday, November 23, 2020 4:38 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).

There were several observances in the Crowley impoundment that were not removed due to plant size or being on private property.

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

Thanks

Brian Kreuzscher

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

Document Content(s)

21-01-08 BRK FLUP Final P L Rpt To FERC ALL.PDF.....1