



January 28, 2022

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 2021 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 2021 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 14, 2021. 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 24, 2021 for review and comment. No comments have been received. The next scheduled monitoring event will be conducted in 2022.

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 that appears to read "Bill".

For Mr. Jason Kreuzer
Vice President

Attachment: Flambeau Upper Final Purple Loosestrife Inventory Report
Correspondence

Cc: Cheryl Laatsch, WDNR
Darin Simpkins, USFWS

2021 Purple Loosetrife 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 14, 2021, 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.

2021 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. 2008-2021- no plants observed.
FLUPPL002	45.93593	-90.44344	N/A	N/A	2006-first observed. 2007-plants observed. 2008-2021-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- 2021- no plant observed.

Appendix B

Data Sheets

Purple Loosestrife Survey

Upper Flamborough Hydroelectric Project – FERC # 2040

Page 1 of 2

Date 7-14-21 Conducted By Angie Stin Sean Caron

HWL 118.9 TWL 116.3 CFS 472 Equipment Used: Binoculars, 14ft Boat GPS Camera

Air Temp: 61 °F Wind Speed: 5-10 Barometer: 30.03 Sky Conditions: 5% clouds

Time Survey Started 7:40 Time Survey Ended 10:30 Boat (14ft or canoe) and/or Foot

Latitude Start BL Longitude End BL

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:

Canadian geese, 2 dem in water near shore, Kingfisher, Painted turtle, Bald eagle, ducks, Muskrat

Purple Loosestrife Survey

Upper Flambeau Hydroelectric Project – FERC # 2640

Page 2 of 2

Date 7-14-21 Conducted By Angie Shire Sean Cronin

HWL 146.94 TWL 147.9 CFS 170 Equipment Used: _____

Air Temp: 61 °C Wind Speed SE0 Barometer: 30.03 Sky Conditions: 5 to Clouds

Time Survey Started 7:55 Time Survey Ended 8:15 Boat (14ft or Canoe) and/or Foot

Latitude Start Dam Longitude End Dam

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:

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

Brian Kreuzscher <bkreuscher@rwehydro.com>

Wed 11/24/2021 12:10 PM

To: Cheryl Laatsch <cheryl.laatsch@wisconsin.gov>; Darin_Simpkins@fws.gov <Darin_Simpkins@fws.gov>

■ 4 attachments (3 MB)

1. FLLWPLReport2021-complete.pdf; 1. Pixley PL Report 2021-complete.pdf; 1.Upper Flambeau PL Report 2021-complete.pdf; 1. Crowley PL Report 2021-complete.pdf;

Cheryl and Darin,

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)

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