

**CONSOLIDATED WATER POWER COMPANY**

General Offices  
P.O. Box 8050, Wisconsin Rapids, WI 54495-8050  
A subsidiary of Verso Corporation

October 2, 2017

Secretary  
Federal Energy Regulatory Commission  
888 1<sup>st</sup> Street, N.E.  
Washington, D.C. 20426

(VIA ELECTRONIC FILING)

***Whiting Hydroelectric Project, FERC No. 2590 – Article 407, Purple Loosestrife Monitoring Biennial Report – 2016/2017***

Dear Secretary:

In accordance with the order approving and modifying the Purple Loosestrife Monitoring Report, Consolidated Water Power Company (CWPCo) is filing the biennial report for biennial years 2016/17 monitoring efforts.

CWPCo conducted monitoring during the summers of 2016 (vehicle August 1st week and boat August 8th) and 2017 (vehicle July 20th and boat July 19th) for the Project. Currently, there are twenty sites monitored, with no new sites identified since 2013.

Overall, the number of purple loosestrife sites and counts showed a significant reduction from 2010 to 2013 and have remained stable from 2014 to 2017, with 4 sites in 2016 and 2 sites in 2017 observed. At these purple loosestrife levels, there are no adverse effects on the Project. For project detail information on the 2016/17 monitored purple loosestrife sites, please refer to Table 1 and Figure 1. It is noted, Table 1 also includes background data from 2010 – 2015 -years for comparison.

This report provides a Google Earth based systems for reporting the purple loosestrife locations which was initiated in the 2014/15 biennial report. CWPCo feels the Google Earth coordinate system is more universal for tracking the purple loosestrife colonies.

The control method administered during 2016/17 involved manual plant removal for all sites with less than 5 plants. Other control methods previously used but not administered during this biennial period include: (1) for less than 5 plants per site, cut off plant top above water line and chemical treat stem or (2) for more than 5 plants per site - (a) no observed or light beetle activity, manual plant removal, (b) observed medium or heavy beetle activity, cut the flower tops off plants, leaving rest of the plant for beetle food.

CWPCo continues to distribute information regarding invasive species (PUBL-WM-250-95) via its recreational brochure which is free to the public.

If there are any questions, please feel free to contact us at (715) 422-3927 or contact [tom.witt@versoco.com](mailto:tom.witt@versoco.com).

Sincerely,

CONSOLIDATED WATER POWER COMPANY

*Thomas J. Witt*

Thomas J. Witt  
Resources Manager

Enclosure: None

File (Whiting, LG-90-30, Article 407)

cc: Ms. Cheryl Laatsch, Wisconsin Department of Natural Resources (electronic email)  
Mr. Nicholas Utrup, U.S. Fish & Wildlife Service, St. Paul, MN (electronic email)

**Table 1 – Purple Loosestrife Monitoring Site Data****Whiting Hydroelectric Project – Purple Loosestrife Biennial Monitoring 2010 to 2017**

Site No	Description	GPS Coordinates (Google Earth)	Plt Density	Beetle Activity	Chem Applied	Action Taken
1	N. Tip of Rock Outcrop Island GL7	Lat 44.4978 , Long -89.5927	1 plt None None None None 2 plts 4 plts None	None    Medium Medium	Yes    No No	2010 - removed, chemical applied 2011 - no plants 2012 – no plants 2013 – no plants 2014 – no plants 2015 – removed 2016 – removed 2017 – no plants
2	N. Tip of Rock Outcrop Island GL7	Lat 44.4980, Long -89.5918	None None None None None None			2010 - no plants 2011 - no plants 2012 – no plants 2013 – no plants 2014/15 – no plants 2016/17 – no plants
3	E. Shoreline GL1	Lat 44.4953, Long -89.5874	3 plts None None None None None	None	Yes	2010 - removed, chemical applied 2011 - no plants 2012 – no plants 2013 – no plants 2014/15 – no plants 2016/17 – no plants
4	E. Shoreline GL1 Ass't Care	Lat 44.4927, Long -89.5841	6 plts 9 plts 2 plts 1 plt None None 2 plts	Light Light Light Light  Light	Yes No No No  No	2010 - removed, chemical applied 2011 - removed 2012 – removed 2013 – removed 2014/15 – no plants 2016 – no plants 2017 – removed
5	Boat Launch	Lat 44.4924, Long -89.5879	2 plts None None None None None	None	Yes	2010 - removed, chemical applied 2011 - no plants 2012 – no plants 2013 – no plants 2014/15 – no plants 2016/17 – no plants
6	Upstrm Boat Launch W side	Lat 44.4928, Long -89.5899	2 plts None 1 plt None None None	None  None	Yes  No	2010 - removed, chemical applied 2011 - no plants 2012 – removed 2013 – no plants 2014/15 – no plants 2016/17 – no plants
7	Upstrm Boat Launch W side	Lat 44.4949 , Long -89.5929	2 plts None 3 plts 2 plts None None	None  Light None	Yes  No No	2010 - removed, chemical applied 2011 - no plants 2012 – removed 2013 – removed 2014/15 – no plants 2016/17 – no plants
8	Small Rock Island W GL2	Lat 44.4966, Long -89.5932	2 plts 1 plt 5 plts None 4/3 plts 4 plts None	None Light Light  Light Heavy	Yes No No  No No	2010 - removed, chemical applied 2011 – removed 2012 – removed 2013 – no plants 2014/15 – removed 2016 – removed 2017 – no plants

Site No	Description	GPS Coordinates	Plt Density	Beetle Activity	Chem Applied	Action Taken
9	SW corner GL2 Island	Lat 44.4946 , Long -89.5913	1 plt None None None None 4 plts None	None    Light	Yes    No	2010 - removed, chemical applied 2011 - no plants 2012 - no plants 2013 - no plants 2014/15 - no plants 2016 - removed 2017 - no plants
10	Above HH bridge W shore	Lat 44.5012 , Long -89.5963	10 plts None 2 plts None None None	Heavy  Light	No  No	2010 - removed flower tops, rest for beetles 2011 - no plants 2012 - removed 2013 - no plants 2014/15 - no plants 2016/17 - no plants
11	Above recr site fishing area	Lat 44.5063, Long -89.5935	8 plts None None None None None	None	Yes	2010 - removed, chemical applied 2011 - no plants 2012 - no plants 2013 - no plants 2014/15 - no plants 2016/17 - no plants
12	McDonald Island NW tip	Lat 44.5114, Long -89.5890	1 plt 6 plts None None None None	None Heavy	Yes No	2010 - removed, chemical applied 2011 - removed flower tops, rest for beetles 2012 - no plants 2013 - no plants 2014/15 - no plants 2016/17 - no plants
13	South of Trans Line, W shore	Lat 44.5040, Long -89.5955	4 plts None 3 plts 2 plts 2 plts None	None  Light Light Light	Yes No No No	2010 - removed, chemical applied 2011 - no plants 2012 - removed 2013 - removed 2014/15 - removed 2016/17 - no plants
14	S. RR cross, E shore Sect 32	Lat 44.5122 , Long -89.5870	5 plts None 2 plts None None None	None  None	Yes No	2010 - removed, chemical applied 2011 - no plants 2012 - removed 2013 - no plants 2014/15 - no plants 2016/17 - no plants
15	S. RR cross, E shore GL1	Lat 44.5115 , Long -89.5869	5 plts None None None None None	None	Yes	2010 - removed, chemical applied 2011 - no plants 2012 - no plants 2013 - no plants 2014/15 - no plants 2016/17 - no plants
16	S HH bridge E shore	Lat 44.5000, Long -89.5911	10 plts None None None None None	None	Yes	2010 - removed, chemical applied 2011 - no plants 2012 - no plants 2013 - no plants 2014/15 - no plants 2016/17 - no plants
17	Under HH bridge E shore	Lat 44.5009, Long -89.5911	4 plts None None None None None	None	Yes	2010 - removed, chemical applied 2011 - no plants 2012 - no plants 2013 - no plants 2014/15 - no plants 2016/17 - no plants

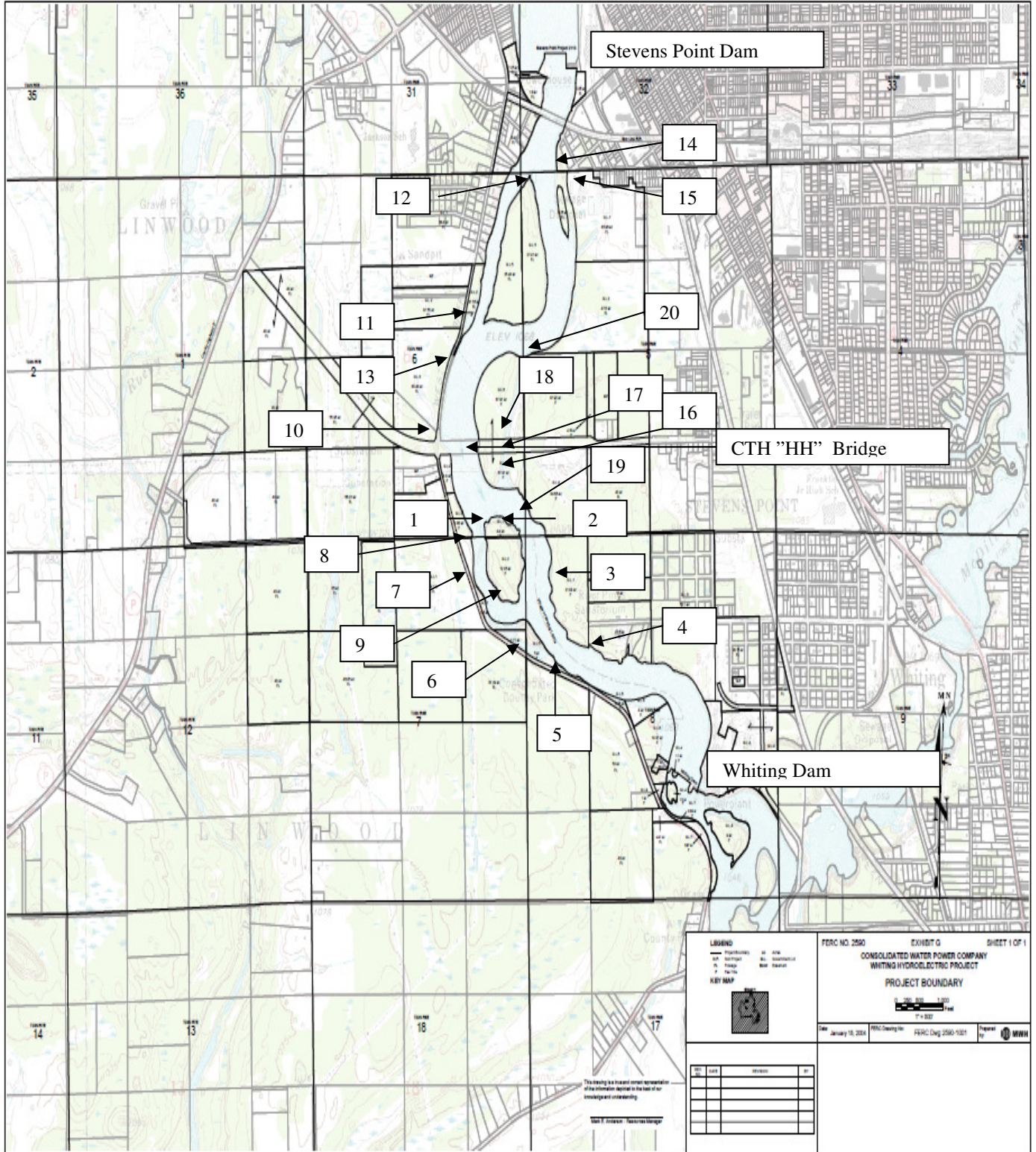
<b>Site No</b>	<b>Description</b>	<b>GPS Coordinates</b>	<b>Pit Density</b>	<b>Beetle Activity</b>	<b>Chem Applied</b>	<b>Action Taken</b>
18	N HH bridge E shore	Lat 44.5013 , Long -89.5910	3 plts None None None None None	None	Yes	2010 - removed, chemical applied 2011 - no plants 2012 - no plants 2013 - no plants 2014/15 - no plants 2016/17 - no plants
19	Rock Island E shore, GL1	Lat 44.4968, Long -89.5889	4 plts None None 2 plts None None 2 plts	None  None  Light	Yes  No  No	2010 - removed, chemical applied 2011 - no plants 2012 - no plants 2013 - removed 2014/15 - no plants 2016 - no plants 2017 - removed
20	Small island above HH brdg	Lat 44.5047, Long -89.5899	4 plts None 4 plts 3 plts None None	Light  Light Medium	No  No No	2012 - removed 2013 - no plants 2014 - removed 2015 - removed 2016 - no plants 2017 - no plants

Notes: 2010 chemical applied to area around removed plant base. Beetle activity rating based on percentage of leaves with bee-see holes from beetle feeding: light less than 15%, medium 15% to 30%, heavy greater than 30%.

# Figure 1

Whiting Hydroelectric Project – FERC No. 2590

Invasive Aquatic Species Monitoring



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