



Wisconsin Public Service Corporation

700 North Adams Street
P.O. Box 19001
Green Bay, WI 54307-9001
www.wisconsinpublicservice.com

December 11, 2014

FERC Project No. 1999

Ms. Kimberly D. Bose, Secretary
The Federal Energy Regulatory Commission
888 First St NE
Washington, DC 20426

Dear Secretary Bose:

Wausau Hydroelectric Project (P-1999)
2014 Noxious Plants Monitoring Report and Six Year Summary

Per the order Amending Purple Loosestrife Monitoring Plan issued October 23, 2008, Wisconsin Public Service Corporation (WPS) is to provide annual updates on the *Galerucella sp.* beetles (beetles) release sites and purple loosestrife populations for a period of six years. After six years control data has been collected (2009-2014), WPS is to file a summary of the data and its recommendation on the schedule for conducting and reporting future purple loosestrife surveys.

In 2014, WPS released beetles that were reared on potted purple loosestrife plants. Approximately 3000 beetles were released by WPS on July 14, 2014.

WPS conducted a purple loosestrife survey on July 14, 2014. The results of the survey indicated a total of ten (10) purple loosestrife colonies located within the project boundary. Beetle feeding was noted at five (5) of those colonies. The purple loosestrife figure and data sheet provide the location of the purple loosestrife, location of beetle feeding, and the beetle release location. The figure and datasheet are located in Appendix A.

WPS created a spreadsheet to summarize the six years of purple loosestrife survey and beetle release data. The spreadsheet is located in Appendix B. A review of the data does not show a decline in the overall number of purple loosestrife colonies. The number of colonies has ranged between eight (8) and fifteen (15) over the six-year period and currently sits at ten (10). The percentage of colonies with beetle feeding has ranged from 33 to 93 percent, and currently sits at 50 percent.

This review of the monitoring data shows that the beetle populations are still not present in all areas of the reservoir. WPS proposes to continue conducting annual purple loosestrife surveys and releasing beetles as a biological control measure for another three years in an attempt to establish healthy beetle populations throughout the entire reservoir.

Ms. Kimberly D. Bose
December 11, 2014
Page 2 of 2

Documentation of submittal of the results to WDNR and FWS has been included in Appendix C.
If you have any questions regarding this report, please contact Darrin Johnson at (715) 345-7509.

Sincerely,

A handwritten signature in black ink, appearing to read "G. Snyder", with a long horizontal flourish extending to the right.

Gil Snyder
Manager - Regional Generation

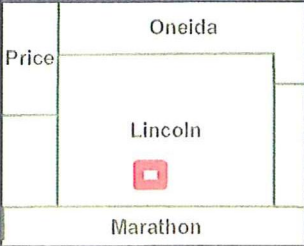
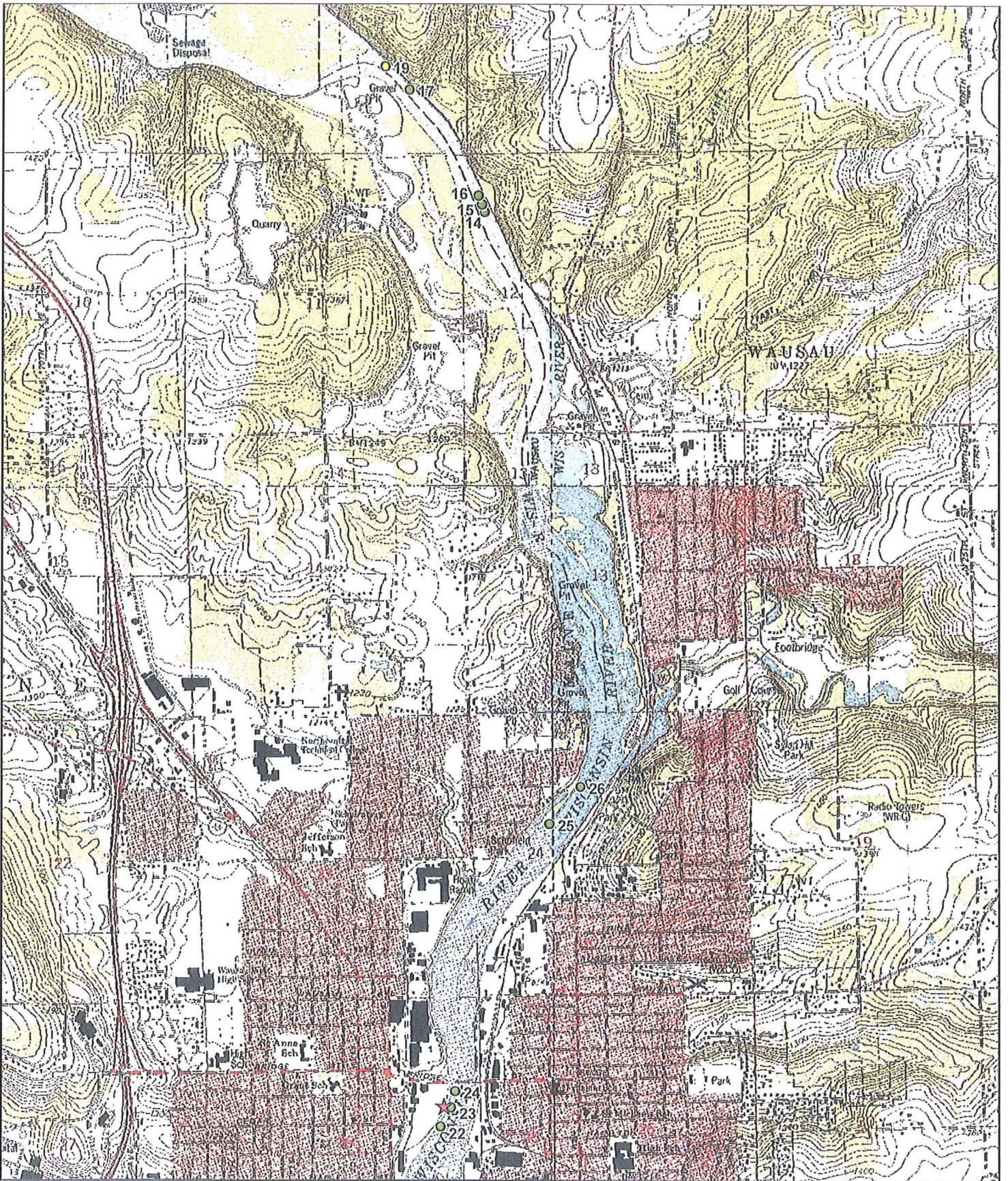
DMJ/rjf

Enclosed: Appendix A; Appendix B; Appendix C

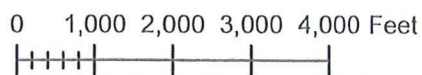
cc:	Mr. Shawn Puzen, IBS - D2	Mr. Brad Menning, WPS - MERH
	Ms. Joan Johaneck, WPS - D2	Mr. John Zygaj, FERC - CRO
	Mr. William Bosacki, WPS - D2	Mr. Edward Brandt, WPS - CRI
	Mr. John Myers, IBS - D2	Ms. Pat Grant, FERC - CRO

APPENDIX A

2014 Wausau Purple Loosestrife Survey Results



2014 Wausau Purple Loosestrife Survey



Date: 10/28/2014

- ★ Beetle Release Site
- Purple Loosestrife**
- 0-5 Plants
- 6-50 Plants
- >50 Plants

Purple Loosestrife Survey Form

Hydroelectric Project

W AUSA

Inspection Date

7/14/14

Colony Number	Colony Size S 0-5 M 6-50 L >50	General Plant Vigor			Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
		Plant Height 4=>4ft 3=2-4ft 2=1-2 ft 1= <1 ft	Plant Flowering 4=100% of plants 3=51-99% of plants 2=26-50% of plants 1= <25% of plants	Beetle Feeding 4=0-25% feeding 3=26-50% feeding 2=51-75% feeding 1=76-100% feeding			
1	—	NO	Plants	Noted	—		
2	—	NO	Plants	Noted	—		
3	—	NO	Plants	Noted	—		
4	—	NO	Plants	Noted	—		
5	—	NO	Plants	Noted	—		
6	—	NO	Plants	Noted	—		
7	—	NO	Plants	Noted	—		
8	—	NO	Plants	Noted	—		
9	—	NO	Plants	Noted	—		
10	—	NO	Plants	Noted	—		
11	—	NO	Plants	Noted	—		

Purple Loosestrife Survey Form

Hydroelectric Project

Wausau

Inspection Date

7/14/14

General Plant Vigor

Colony Number	Colony Size S 0-5 M 6-50 L >50	Plant Height 4=>4ft 3=2-4ft 2=1-2 ft 1= <1 ft	General Plant Vigor		Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
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12	—	NO	Plants	Noted	—	—	—
13	—	NO	Plants	Noted	—	—	—
14	S	4	4	4	12	NO feeding	good
15	S	3	4	3	10	feeding	good
16	S	3	4	3	10	feeding	good
17	S	3	3	1	7	feeding	fair
18	—	NO	Plants	Noted	—	—	—
19	M	3	3	1	7	feeding	fair
20	—	NO	Plants	Noted	—	—	—
21	—	NO	Plants	Noted	—	—	—
22	S	4	4	4	12	NO Feeding	good

Purple Loosestrife Survey Form

Hydroelectric Project

WASA

Inspection Date

7/14/14

Colony Number	Colony Size S 0-5 M 6-50 L >50	General Plant Vigor			Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
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23	S	4	4	4	12	No feed	
24	S	4	4	4	12	No feed	
25	S	4	4	4	12	No feed	
26	S	3	4	3	10	feeding	

good
good
good
good

10 colonies total
 5 w/ feeding
 5 w/ no feeding
 Release @ site # 23 - 3000 beetles

Appendix B

Summary of Wausau Purple Loosestrife Surveys

2009-2014

Wausau Project

Year	Total Number of Colonies	Number of small colonies(0-5 plants)	Number of Medium Colonies (6-50 plants)	Number of Large Colonies (50+ plants)	Number of colonies with beetle feeding	Percentage of total colonies with beetle feeding	Beetles Released
2009	8	7	0	1	4	50%	500
2010	13	11	0	2	5	38%	2000
2011	8	6	0	2	6	75%	2000
2012	15	14	1	0	14	93%	4000
2013	12	10	1	1	4	33%	3000
2014	10	9	1	0	5	50%	3000

6 year average	11.0	9.5	0.5	1	6.3	57%
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Appendix C

Documentation of Consultation



Wisconsin Public Service Corporation

700 North Adams Street

P.O. Box 19001

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www.wisconsinpublicservice.com

October 29, 2014

FERC Project No. 1999

Ms. Cheryl Laatsch
WDNR-FERC Coordinator
N7725 Hwy 28
Horicon, WI 53032

Mr. Nick Utrup
USFWS Ecological Services Field Office
4101 American Blvd. East
Bloomington, MN 55425

Dear Ms. Laatsch and Mr. Utrup:

Wausau Hydroelectric Project (P-1999)
2014 Noxious Plants Monitoring Report and Six Year Summary

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This review of the monitoring data shows that the beetle populations are still not present in all areas of the reservoir. WPS proposes to continue conducting annual purple loosestrife surveys and releasing beetles as a biological control measure for another three (3) years in an attempt to establish healthy beetle populations throughout the entire reservoir.

If you have any questions or comments regarding this report, please provide them within 30 days to Darrin Johnson at (715) 345-7509.

Sincerely,


Darrin Johnson
Environmental Consultant

DMJ

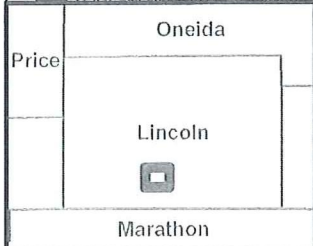
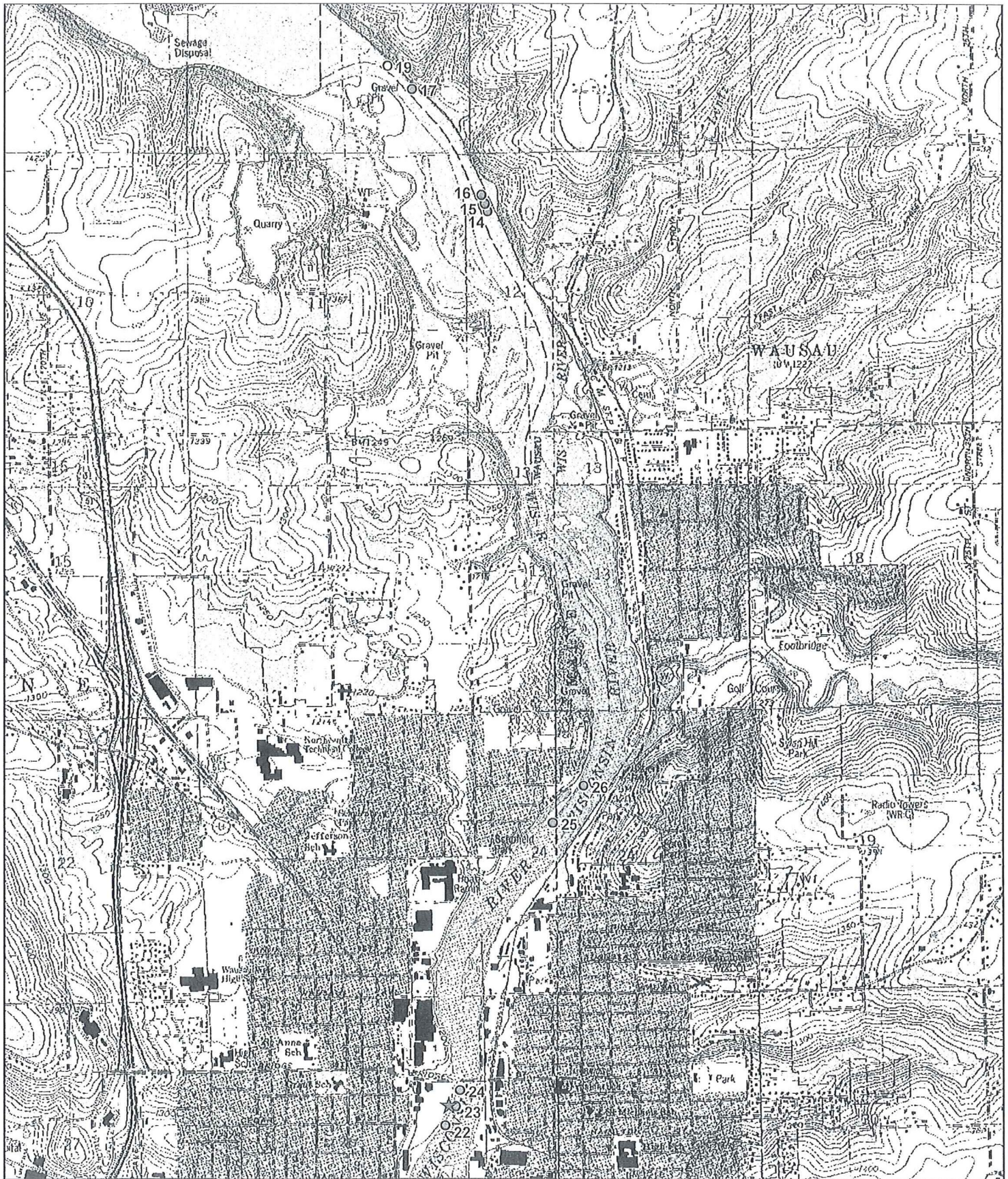
Enclosed: Appendix A, Appendix B

CC: Mr. Brad Menning, WPSC-MERH

Mr. William Bosacki, WPSC-D2

APPENDIX A

2014 Wausau Purple Loosestrife Survey Results



2014 Wausau Purple Loosestrife Survey

0 1,000 2,000 3,000 4,000 Feet



Date: 10/28/2014

- ★ Beetle Release Site
- Purple Loosestrife**
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Purple Loosestrife Survey Form

Hydroelectric Project

W AUSA

Inspection Date

7/14/14

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Purple Loosestrife Survey Form

Hydroelectric Project
Inspection Date

Wausau

7/14/14

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Purple Loosestrife Survey Form

Hydroelectric Project

WASA

Inspection Date

7/14/14

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WDNR Comments

Johnson, Darrin M

From: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>
Sent: Wednesday, October 29, 2014 1:16 PM
To: Johnson, Darrin M
Subject: RE: Wausau Invasive Reports



Jodi L was very happy with the format of the report and the ease in understanding that was done, and why. Nice job.

We are committed to service excellence.

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

Cheryl Laatsch
Phone: 920-387-7869
Cheryl.laatsch@wisconsin.gov

From: Johnson, Darrin M [mailto:DMJohnson@integrysgroup.com]
Sent: Wednesday, October 29, 2014 1:15 PM
To: Laatsch, Cheryl - DNR
Subject: RE: Wausau Invasive Reports

Thanks for your comments Cheryl.

Darrin M. Johnson
Environmental Consultant | Environmental Services | Integrys Business Support, LLC

715-345-7509
715-697-3130 *cell*
715-345-7505 *fax*
dmjohnson@integrysgroup.com

www.integrysgroup.com

Providing support for Integrys Energy Group, Integrys Energy Services, Integrys Transportation Fuels, Michigan Gas Utilities, Minnesota Energy Resources, North Shore Gas, Peoples Gas, Upper Peninsula Power Company, Wisconsin River Power Company, and Wisconsin Public Service.

From: Laatsch, Cheryl - DNR [mailto:Cheryl.Laatsch@wisconsin.gov]
Sent: Wednesday, October 29, 2014 1:14 PM
To: Johnson, Darrin M
Subject: Wausau Invasive Reports

We recommend: If there is not a decrease or if there is an increase at their next survey in three years, then they should resume their current beetle release and monitoring schedule.

We are committed to service excellence.

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

Cheryl Laatsch
Phone: 920-387-7869
Cheryl.laatsch@wisconsin.gov

Johnson, Darrin M

From: Laatsch, Cheryl - DNR <Cheryl.Laatsch@wisconsin.gov>
Sent: Tuesday, December 09, 2014 10:52 AM
To: Johnson, Darrin M
Subject: FW: Wausau and Jersey Invasive Reports

Here are some comments from Jodi

We are committed to service excellence.

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

Cheryl Laatsch

Phone: 920-387-7869

Cheryl.laatsch@wisconsin.gov

From: Lepsch, Jodi A - DNR
Sent: Tuesday, December 09, 2014 10:45 AM
To: Laatsch, Cheryl - DNR
Subject: RE: Wausau and Jersey Invasive Reports

Re: Wausau Report

As with the other reports, it would be nice if they outlined their methods more.

The topo map makes it hard to see the added data. An aerial map would be better.

Otherwise, looks good.

We are committed to service excellence.

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

Jodi Lepsch

Phone: (715) 838-8385

Jodi.Lepsch@Wisconsin.gov

WPS Response to DNR Comments

Comment 1: We recommend: If there is not a decrease or if there is an increase at their next survey in three years, then they should resume their current beetle release and monitoring schedule.

WPS Response: Comment is meant for the Jersey Hydroelectric Project (P-2476) where WPS has requested reducing the frequency of monitoring. WPS proposes to continue annual monitoring at the Wausau Project (P-1999).

Comment 2: Jodi L was very happy with the format of the report and the ease in understand what was done and why. Nice Job.

WPS Response: Comment noted.

Comment 3: As with other reports it would be nice if they outlined their methods more.

WPS Comment: Methods for the survey are detailed in the Amended Purple Loosestrife Monitoring Plan which was approved on October 23, 2008. WPS consulted with WDNR and FWS on the plan prior to submittal to FERC for approval.

Comment 4: The topo map makes it harder to see the added data. An aerial map would be better.

WPS Response: WPS will use an aerial photo background on maps for future reports.

Comment 5: Otherwise, Looks good.

WPS Response: Comment noted.

No comments were received from FWS

Document Content(s)

20141211 Wausau FERC Letter.PDF.....1-2

20141211 Wausau Appendices.PDF.....3-24