

November 26, 2012

Wisconsin Public Service Corporation

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

FERC Project Nos. 1999 and 2476

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

Dear Secretary Bose:

RE: 2012 Noxious Plants Monitoring Reports, Wausau and Jersey Hydroelectric Projects

Per the order a 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, beginning in 2009 to the Wisconsin Department of Natural Resources (WDNR) and the U.S. Fish and Wildlife Service (FWS) no later than October 31st of each year and to the Federal Energy Regulatory Commission (FERC) with agency comments no later than December 15 of each year.

Jersey Hydroelectric Project

In 2012, WPS released beetles that were reared on potted purple loosestrife plants. Approximately 2000 beetles were released on July 5, 2012.

A purple loosestrife survey was conducted at the Jersey Hydroelectric Project on July 31, 2012. The results of the survey indicated a total of twenty-one (21) purple loosestrife colonies within the project boundary. Beetle feeding was noted at nineteen (19) colonies. Heavy feeding (colonies with 75% to 100% of plants with active beetle feeding) was noted at fourteen (14) of those colonies. For comparison purposes, 2011 survey results noted a total of sixteen (16) purple loosestrife colonies. Beetle feeding was noted at fifteen (15) colonies with heavy feeding noted at eight (8) 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.

Wausau Hydroelectric Project

In 2012, WPS released beetles that were reared on potted purple loosestrife plants. Approximately 4000 beetles were released at the Wausau Hydroelectric Project on July 6, 2012.

WPS completed a purple loosestrife survey on August 3, 2012. The results of the survey indicated a total of fifteen (15) purple loosestrife colonies in the project boundary. Beetle feeding was noted at ten (10) colonies. For comparison, the 2011 survey noted a total of eight (8) colonies. Beetle feeding was noted at six (6) colonies.

Ms. Kimberly D. Bose, Secretary November 26, 2012 Page 2 of 2

The purple loosestrife survey figure and datasheet provide the location of the purple loosestrife, location of beetle feeding and beetle release locations. The figure and data sheet are located in Appendix B.

Documentation of submittal of these results to the Wisconsin Department of Natural Resources and the United States Fish and Wildlife Service has been included in Appendix C. No comments were received from the resource agencies.

If you have any questions regarding this report, please do not hesitate to contact Darrin Johnson at (715) 345-7509.

Sincerely,

Terry P. Jensky

Vice President - Generation Assets

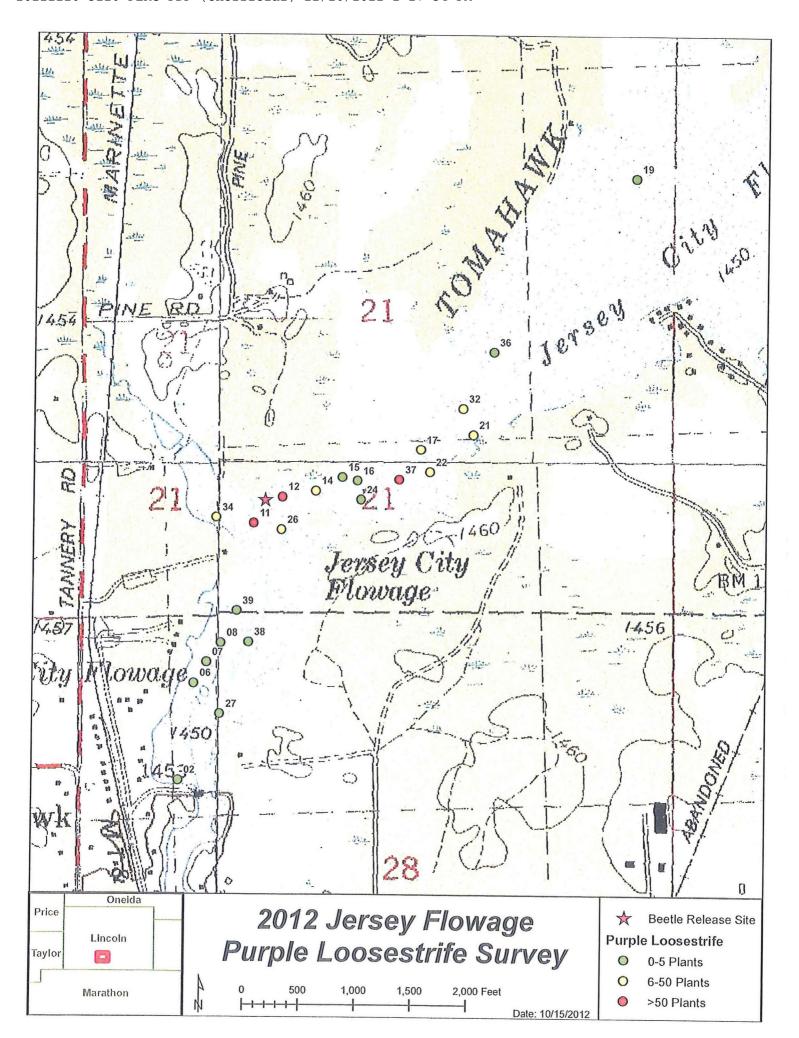
Enc.

cc: Mr. Gil Snyder, WPS

Mr. Bill Bloczynski, WPS Mr. Shawn Puzen, IBS Mr. William Bosacki, WPS Ms. Joan Johanek, WPS Ms. Pat Grant, FERC-Chicago

APPENDIX A

Jersey Flowage Purple Loosestrife Survey Results



Purple Loosestrife Survey Form

Hydroelectric Project
Inspection Date

			General Plant	Vigor	7		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
1	No	PL	ANTS	Noted			
2	S	((1	3	Herry	JPLT
3	NO	T	lants 1	Vole(s)		J	
y	NC	> 7	locate	Wotop			
5	No	> 7	lants	Noted			
6	S	3	Y	4	()		JPL8
7	S	3	4	4	//		JPL9
8	2	3	3	3	9		TPLID
9	N	0	Plants	Note	1		,
10	N	2	Plants	Note	2		,
11							JPL 13

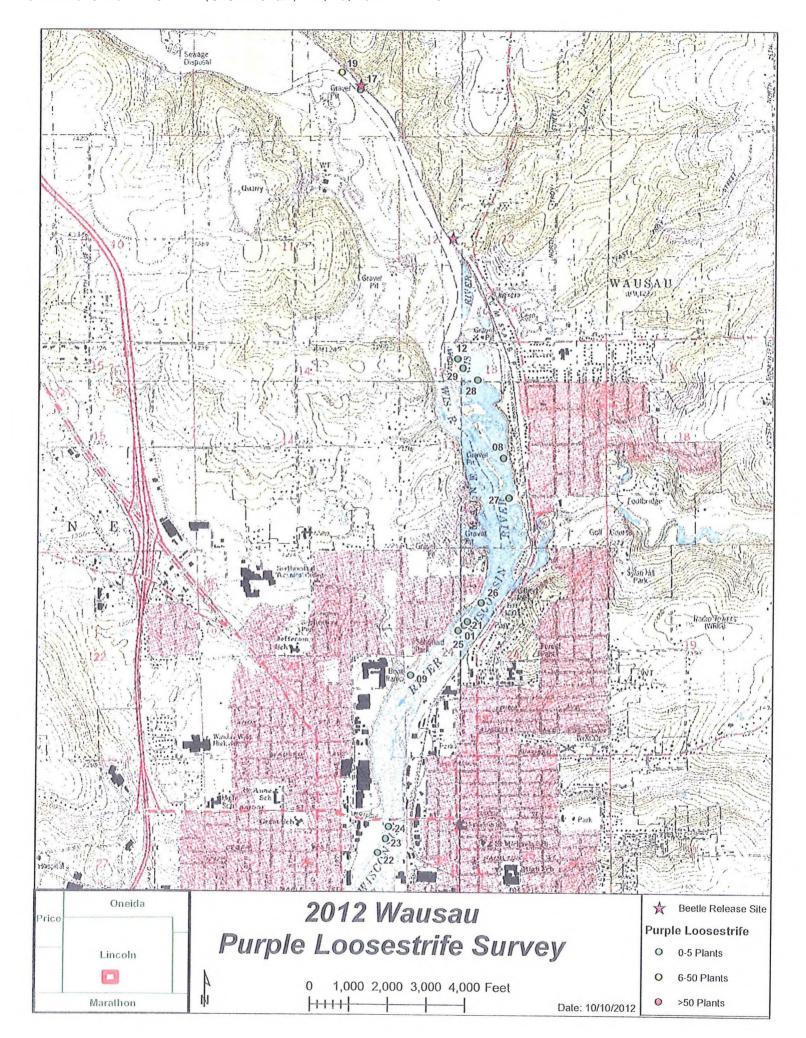
			General Plant \	/igor	7		
Colony Number	Colony Size S 0-5 M 6-50 L >50	Plant Height 4=>4ft 3=2-4ft 2=1-2 ft 1= <1 ft	Plant Flowering 4=100% of plants 3=51-99% of plants 2=26-50% of plants 1= <25% of plants	Beetle Feeding 4=0-25% feeding 3=26-50% feeding 2=51-75% feeding 1=76-100% feeding	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
12	-	3	3	1	7	Heavy	TPLIY
13	NO	P	LANTS	NOT	ED		/
14	M	4	5	1	8	Hewit W	JPL15
15	5	4	3	1	8		JPL/4
16	5	4	3	(8	Heury Freding	JPLIT
17	W	4	2	j	7	Henry reeding	JPLIG
18	No	0	PLANTS	Noi	Ged.	4560	
19	S	4	Ч.	4	12	No Feedus	JPLZZ
20	No	P	LANTS	NOTED		g. Coons	7,120
21	N	3	4	2	9		JPLI
22	M	3	4	1	8	Heavy Feeding	JPLZ

			General Plant V	igor	1		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
23	NO	7	LANTS	Noted			
NS	S	3	4	>_	9		JPL
25	No	PL	AWTS ,	NOTED			
26	M	4	3	i	8	HERVY Feed-W	JPL
27	S	8	4	4	//	NO Feel-up	JPL
58	N	0 (Plants	Noted	·		
29	1	10	PLAV	UTS A	1078	1)	
30	U/	20	Placits	Noted			
3(NO	P	LAWTS	Note	\int		
32	M	4	2	(7	Heavy . Gerbings	JPL Ze
33	No	P	LANTS	NOTE	())	

			General Plant \	ligar	-		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Ned	GPS
34	W	4	5	/	7	Notes Hewit Feedina	Point JPL/2
35	NO	PI	LANTS	NOTED			
36	S	4	2	1	7	Heavy Fredin	JPLZ
37	L	3	2	1	6	Hemy	JPLIS
38	S	3	4	1	8	Heavy feedin	JPLS
34	S	4	4	1	9	New Site	JPLII
						Leeday	

APPENDIX B

Wausau Flowage Purple Loosestrife Survey Results



			General Plant V	'igor	1		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
1	S	4	Ч	Y	12	No	348
2	No	P	lants 1	Noted			
3	No	Pl	auts W	red			
4	No	P	lants No	ted			
5	No	P	lants No	sted			
6	No	, 7	lants 1	roted			
7	No	P	lants N	'steel			
8	S	Z.	2	1	5		3.55
9	5	4	4	2	10		357
10	No	27	Plants	Noted			
11	N	07	Plants 1	Voted			

Purple Loosestrife Survey Form

Hydroelectric Project Inspection Date

			General Plant \	Vigor	7		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
12	S	4	3	2	9		35
13	No	G	lants 1	Voted			
14	No	P	cents 1	Jotes			
15	No	Pl	ents 1	No ted			
(6	V	0	Plants	Noted			
17	S	3	4	2	9		194
18	NO	Pla	inte M	ofol			. 1
19	M	3	4	ک	9		195
20	NO	7	LAWTS	Noted			
21	S	4	4	4	12	No Feeding	349
22	5	4	4	4	12 1	lo Feeding	344

Hydroelectric Project Inspection Date

Purple Loosestrife Survey Form
ctric Project
tion Date

S/3//2

		General Plant V	rigor			
Colony Size S 0-5 M 6-50 L >50	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
5	3	4	3			345
5	3	4	3	10	,	346
S	4	4	4	12	NO Geodin	
5	Ÿ	4	4	12		
S	2	5	j	5	Teachon .	355
S	2	S	((323
S	Y	4	2	10	New	352
	S 0-5 M 6-50 L >50	Colony Size S 0-5 M 6-50 L >50 1 = <1 ft	Plant Height 4=>4ft 3=2-4ft 3=51-99% of plants 3=51-99% of plants 2=26-50% of plants 1=<1 ft 1=<25% of plants 1=<25% of plants	Colony Size S 0-5 Height 4=>4ft 3=2-4ft 2=1-2 ft 1=<1 ft 1=<25% of plants 1=76-100% feeding 2=51-75% feeding 1=76-100% f	Colony Size S 0-5 S 0-5 M 6-50 L >50 S 2 C 4 C 5 C 6 C 7 C 7 C 7 C 7 C 7 C 8 C 8 C 9 C 9 C 9 C 9 C 9 C 9 C 9 C 9 C 9 C 9	Plant Height Plant Flowering A=>4ft A=100% of plants A=0.25% feeding A

APPENDIX C

Documentation of Consultation With Resource Agencies



Wisconsin Public Service Corporation

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

www.wisconsinpublicservice.com

October 18, 2012

Cheryl Laatsch WDNR 101 South Webster Street OE/7 Madison, WI 53703 Nicholas Utrup US Fish and Wildlife Service 2661 Tower Drive New Franken, WI 54229

Dear Ms. Laatsch and Mr. Utrup:

RE: 2012 Noxious plants Monitoring Reports, Wausau and Jersey Hydroelectric Projects (FERC Project No. 1999 and FERC Project No. 2476)

Per the order a 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, beginning in 2009 to the Wisconsin Department of Natural Resources (WDNR) and the U.S. Fish and Wildlife Service (FWS) no later than October 31st of each year and to the Federal Energy Regulatory Commission (FERC) with agency comments no later than December 15th of each year.

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The purple loosestrife survey figure and datasheet provide the location of the purple loosestrife, location of beetle feeding and beetle release locations. The figure and data sheet are located in Appendix B.

If you have any comments regarding this report, please submit them within 30 days. If you have any questions feel free to contact me at 715-345-7509.

Sincerely,

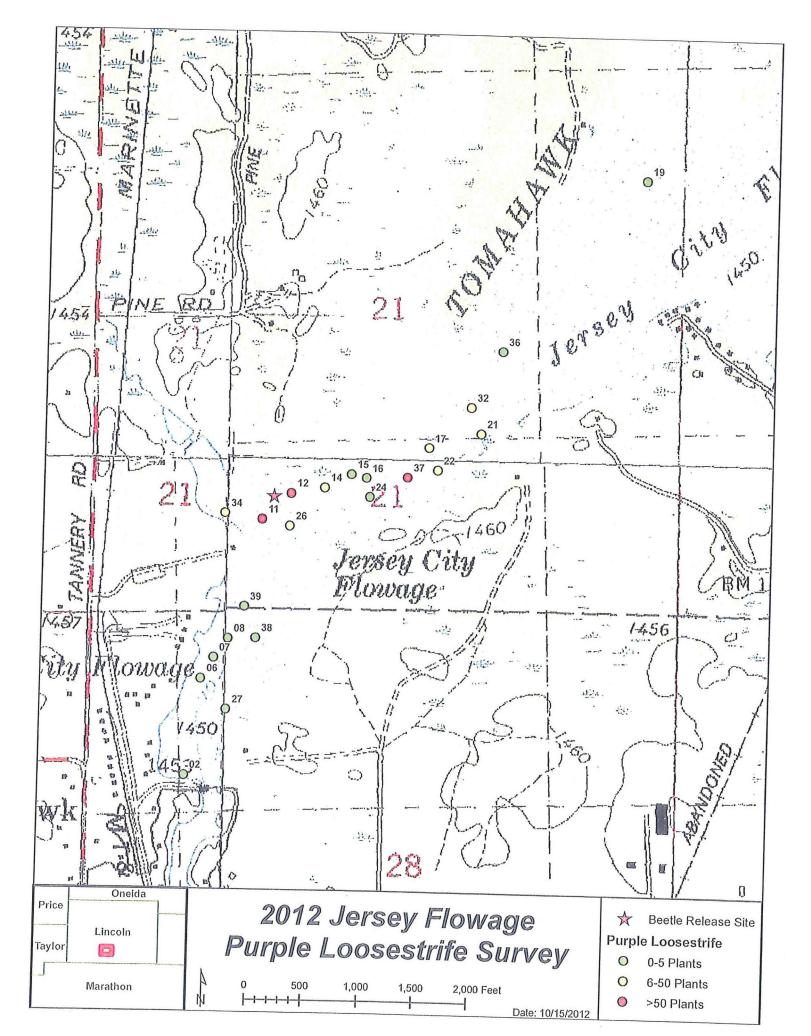
Darrin Johnson

Environmental Consultant-Shoreline Management

Enc.

APPENDIX A

Jersey Flowage Purple Loosestrife Survey Results



Purple Loosestrife Survey Form Inspection Date

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1	No	PL	ANTS	Notal)			
2	S	((1	3	Herry	JPL
3	NO	t	lants 1	Vole()		J	
4	NC) [locats	Woted			
5	No	> 7	Plants	Noted			
6	5	.3	Y	4	(/		JPLS
7	S	3	4	4	//		JP19
8	2	3	3	3	9		TPLID
9	N	0	Plants	Note	1		,
10	N	2	Plants	Note. Note	2		
11							JPL1

Purple Loosestrife Survey Form Inspection Date

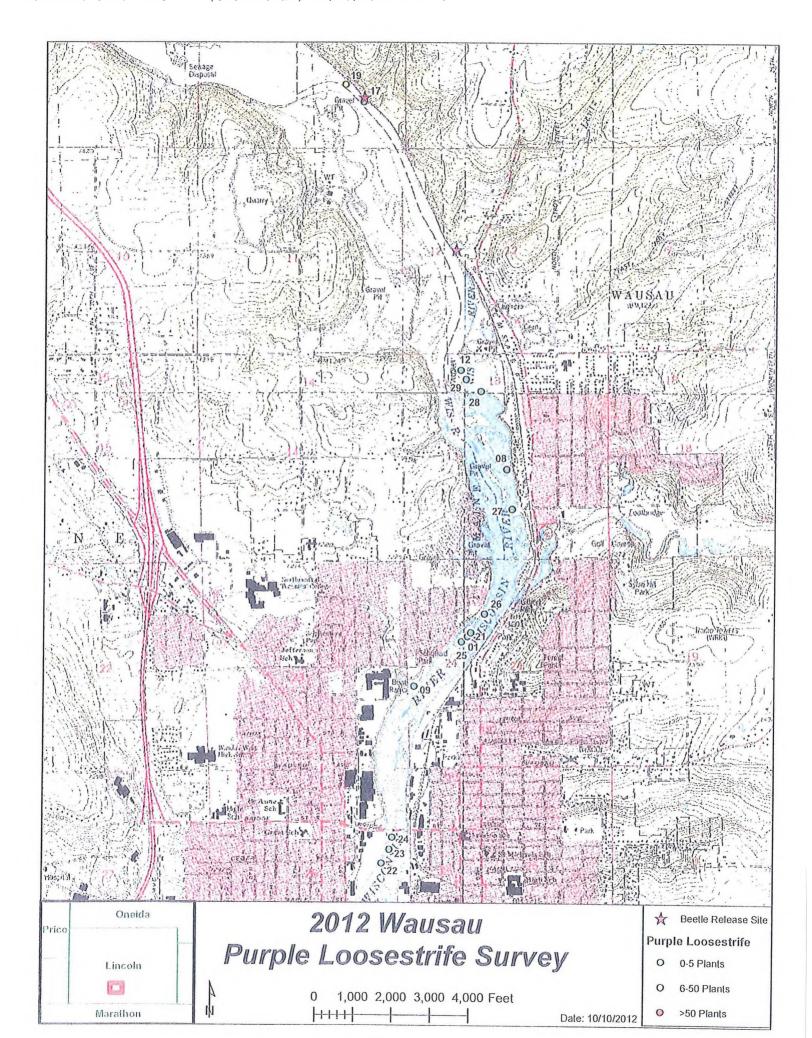
				General Plant	Vigor			
	Colony Number	Colony Size S 0-5 M 6-50 L >50	Plant Height 4=>4ft 3=2-4ft 2=1-2 ft 1= <1 ft	Plant Flowering 4=100% of plants 3=51-99% of plants 2=26-50% of plants	Beefle Feeding 4=0-25% feeding	4-6=noor	Notes	GPS
	12	2000	3	3	1	7.	Heavy	Point TPL/4
	13	NO	P	LANTS	NOT	£D		/
	(\	M	4		1	8.	Heavil W Feldin	JPL15-
-	15	5	4	3	1	8		JPL/6
-	16	5	4	3	(8	Heury Freding	JPLIY
L	17	W	4	2	j	7		JPLIG
-	18	N	0	PLANTS	Noi	Ged	teed.	
L	19	S	4	4.	Y	63	No	JPL22
	20	NO	P	41075	NOTED		Feedus.) luke
	21	M	3	4	2	9		70: 1
	22	W	3	4	1		teavy	JPL/
						0	Freeding .	JPLZ

			General Plant \	/igor	7		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
23	No	F	LANTS	Noted		,	
MS	S	3	4	'>	9	×	JPL
25	No	PL	AWTS.	NOTED			
26	M	4	. 3	i	8	Heavy Feed-Wy	JPL
27	S	3	4	4	11	NO Feedug	JPL
58	N	0	Plants	Noted	,)	
59	/	10	PLAV	UTS. A	10781	7)	
30	V	00	Dourts	Noted	6,		
3(No	P	LAWTS	Notes	ſ		
32	M	4	2	(7	Heavy.	TPL 20
33	No	P	LAPTS	NOTE	()		

			General Plant V	/igor	 -1		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor	Nete	GPS
34	M	4	2	/	7	Notes Hewil Fredicial	Point JPL/2
3.5	NO	Pl	LANTS	NOTED			
36	S	4	2.	1	7	Heavy Freder	JPLZ
37	Low	3	2	1	6	Hemy	JPLIX
38	S	3	4	1	8	Heavy	, JPLS
34	S	4	4	1	Ÿ	New Site	JPL/1
						reedu	,
			,				

APPENDIX B

Wausau Flowage Purple Loosestrife Survey Results



Hydroelectric Project
Inspection Date

Purple Loosestrife Survey Form

| Uauscula
| Sizina

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1	S	4	4	Y	12	No	348
2	No	P	lants 1	Noted			
3	No	Pla	auts W	red			
4	No	P	lants No	ted			
5	No	P	lants No	sted			
6	No	P	lants A	roted			
7	No	OP	lants n	oted			
8	S	7	2.)	5		3.55
9	5	4	4	2	10		357
10	No	9 7	Plants	Noted			
11	1	10 7	Plants 1	Voted			

Purple Loosestrife Survey Form

Hydroelectric Project
Inspection Date

| Call |

			General Plant	Vigor	1		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
12	S	¥	3	2	9		35
13	No	i i	Laurets 1	Vo ted			
14	No	P	cents 1	Jokes			·
15	No	Pl	ants i	No teel			
16	N	0	Plants	Noted			
17	S	3	4	2	9		194
1	NO	Pla	ints M	oted			
19	M	E	4.	`ک	9		195
20	NO	7	LAWTS	Noted			
21	S	4	4	4	12	No Feeding	349
22	5	4	4	4		to Feeding	344

Purple Loosestrife Survey Form Hydroelectric Project While Mile

Inspection Date

			General Plant V	/igor	1		
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	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	Total Plant Vigor 10-12=good 7-9=fair 4-6=poor 0-3=very poor	Notes	GPS Point
23	5	3	4	3	10		345
24	S	3	4	3	10		346
25	S	4	4	Ч	12	W Feeding	
26	5	Y	4	4	12	No J	
27	S	2	2	1	5	100000	355
28	S	2	S	(<u></u>		323
29	S	4	4	2	10	New	355

No Comments Received from FWS

No Comments Received From WDNR

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Document Content(s)
20121126 Wausau Jersey FERC Invasives letter.PDF1-2
20121126 Wausau-Jersey Appendix A.PDF
20121126 Wausau-Jersey Appendix B.PDF9-13
20121126 Wausau-Jersey Appendix C.PDF14-29