

Wisconsin Public Service Corporation
An Integrys Energy Group Company
2001 Plover Road
Plover, WI 54467
www.wisconsinpublicservice.com

December 10, 2013

FERC Project No. 1979

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

Dear Secretary Bose:

Alexander Hydroelectric Project 2013 Invasive Species Monitoring Report

As per the order approving the Invasive Species Monitoring Plan for the Alexander Hydroelectric Project (Project No. 1979) issued on March 4, 2005, Wisconsin Public Service Corporation (WPS) is submitting the purple loosestrife, Eurasian water milfoil (EWM) and zebra mussel survey results.

Additionally, as per the Order Amending Purple Loosestrife Control Measures in Approved Monitoring Plan issued on July 9, 2009, WPS revised the survey methods to include general plant vigor information in its purple loosestrife survey results.

Purple Loosestrife

A survey for purple loosestrife was completed for the Alexander Project on July 23, 2013. The survey results indicated that there were a total of nineteen (19) purple loosestrife colonies on the project. No colonies were cut or sprayed to avoid adverse impacts to existing or potential new populations of *Galerucella sp.* beetles (beetles). Each colony located during the survey was issued an individual number and mapped on the WPS GIS system. Plant vigor information was recorded for each colony.

Beetle feeding was noted at fourteen (14) colonies. Nine (9) of those colonies had plant vigor classifications of less than good. For comparison, the 2012 survey noted a total of thirty-eight (38) colonies. Beetle feeding occurred on fifteen (15) of those colonies and eleven (11) colonies had plant vigor classifications of less than good. A summary of the purple loosestrife results have been included in Appendix A.

In 2013, WPS released beetles at the Alexander Project that were reared in potted purple loosestrife plants. The beetles were released near existing colonies. Approximately 3000 beetles were released on July 14, 2013.

Ms. Kimberly D. Bose December 10, 2013 Page 2 of 2

Eurasian Water Milfoil

A survey for EWM was conducted on July 31, 2013. Samples were collected at three sampling locations within the Alexander Hydroelectric Project. The sample locations were specifically chosen near boat landings. No EWM was identified during the survey. A summary of 2013 EWM survey results have been included in Appendix B.

Zebra Mussels

Monthly inspections of substrate samplers for the presence of zebra mussels were conducted during the months of May through September. Zebra mussels were not found during any of the monthly inspections. A summary of 2013 zebra mussel survey results has been included in Appendix C.

Documentation of submittal of the results and comments received by WDNR, FWS, and UW-Manitowoc have been included in Appendix D.

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

Sincerely,

Terry P. Jensky

Vice-President – Generation Assets For Wisconsin Public Service Corporation

DMJ

Enclosed: Appendix A, Appendix B, Appendix C, Appendix D

CC: Mr. Gil Snyder, WPSC-D2

Mr. Shawn Puzen, IBS-D2 Mr. Bill Bloczynski, WPSC-MERH

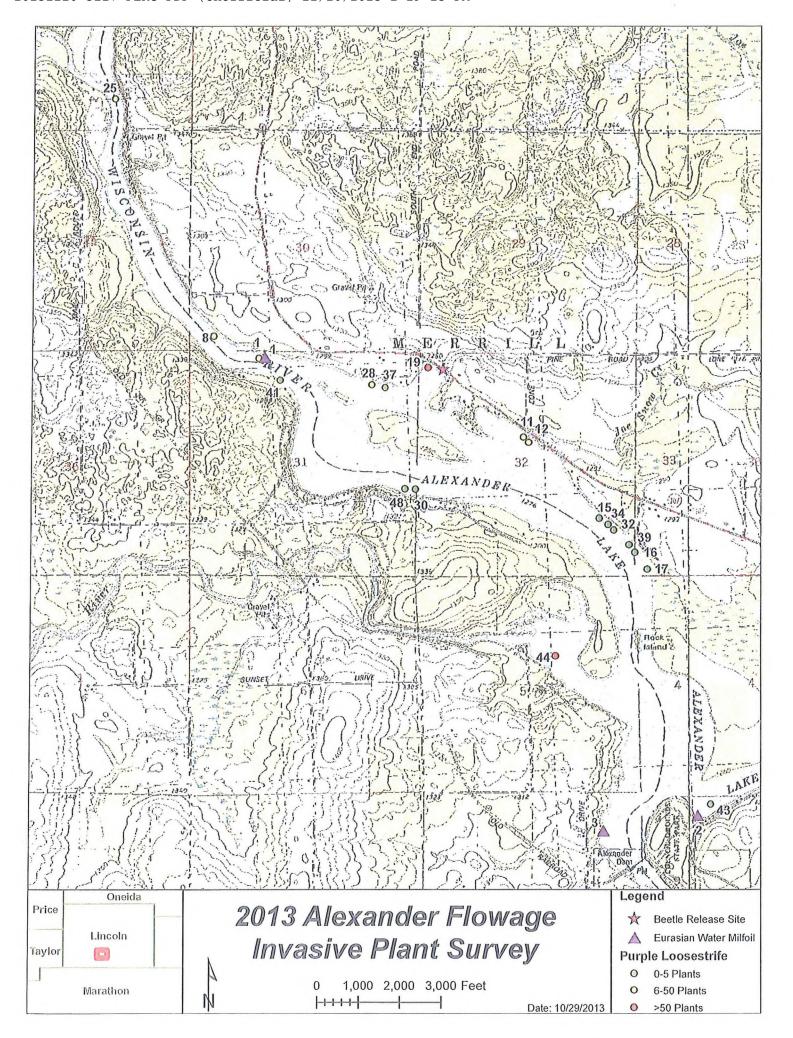
Mr. John Zygaj, FERC-CRO

Mr. John Myers, IBS-D2

Ms. Joan Johanek, WPSC-D2 Mr. William Bosacki, WPSC-D2

Ms. Pat Grant, FERC-CRO

APPENDIX A PURPLE LOOSESTRIFE MONITORING RESULTS



Purple Loosestrife Survey Form Hydroelectric Project Inspection Date General Plant Vigor

		-	General Plant Vig	301			
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
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2	M	3	3	2	8	fair	`
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10		NO	Plank	Noted			
11	M	3	3	2	8	fair	

19 to tel 5 No Feed 5 Gard 7 fair 2 poor

Purple Loosestrife Survey Form Hydroelectric Project
Inspection Date

			General Plant Vi	gor	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
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Purple Loosestrife Survey Form

Hydroelectric Project
Inspection Date

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Purple Loosestrife Survey Form
Hydroelectric Project
Inspection Date

7/5 3//3

			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=23-50% 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
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Purple Loosestrife Survey Form Hydroelectric Project Inspection Date

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46	_	MO	Plants	noted			
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APPENDIX B EURASIAN WATER MILFOIL MONITORING RESULTS

2013 EWM SURVEY RESULTS

July 23, 2013

Alexander

Transect #	0-0.5M	0.5M-1.5M	1.5M-3M	>3M
1A	0	NA	NA T	NA
1B	0	0	NA	NA
1C	0	0	NA	NA
2A	0	NA	NA	NA
28	0	0	NA	NA
20	0	0	NA	NA
3A	0	NA	NA	NA
3B	0	0	NA	NA
3C	0	0	0	NA

NA-Not applicable

Abundance Scale O=Absent, 1-Present, 2 Presence < 1/2, 3-Equal presence to other species

4- Dominant Species Present, 5- Total Infestation

Note: all transects are 40 feet in length and proceed away from shore in a direction perpendicular to the shoreling

APPENDIX C ZEBRA MUSSEL MONITORING RESULTS

ZEBRA MUSSEL INSPECTION RESULTS WESTERN HYDROELECTRIC PROJECTS

HYDRO NAME

	Grandfather Falls Wausau		Merrill Alexander		Tomahawk Jersey	☐ Otter Rapids ☐ Hat Rapids
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COM	MENTS/RESULTS	:				

ZEBRA MUSSEL INSPECTION RESULTS WESTERN HYDROELECTRIC PROJECTS

HYDRO NAME

	Grandfather Falls Wausau	回	Merrill Alexander		Tomahawk Jersey	☐ Otter Rapids ☐ Hat Rapids
INS	PECTION TYPE:	D' MO	NTHLY INSPECTION	ON	TI INSPECTION DI	JRING DRAWDOWN
	TE: 6-7-13				in the Lorion De	MW OUW AND DIAM
CON	MENTS/RESULT	S:	\bigcirc			

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COM	MENTS/RESULTS	S:				

APPENDIX D DOCUMENTATION OF CONSULTATION



Wisconsin Public Service Corporation An Integrys Energy Group Company 2001 Plover Road Plover, WI 54467 www.wisconsinpublicservice.com

October 30, 2013

FERC Project No. 1979

Cheryl Laatsch

Nick Utrup

WDNR

USFWS

N7725 Hwy 28

4101 American Boulevard E

Horicon, WI 53032

Bloomington, MN 55425

Dear Mr. Utrup and Ms. Laatsch:

RE: Invasive Species Monitoring Report for Alexander Hydroelectric Project (FERC Project 1979)

As per the order approving the Invasive Species Monitoring Plan for the Alexander Hydroelectric Project (Project No. 1979) issued on March 4, 2005, Wisconsin Public Service Corporation (WPS) is submitting the purple loosestrife, Eurasian water milfoil (EWM) and zebra mussel survey results.

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If you have any comments regarding this report, please submit them within 30 days. If you have any If you have any questions regarding this report, please do not hesitate to contact me at (715) 345-7509.

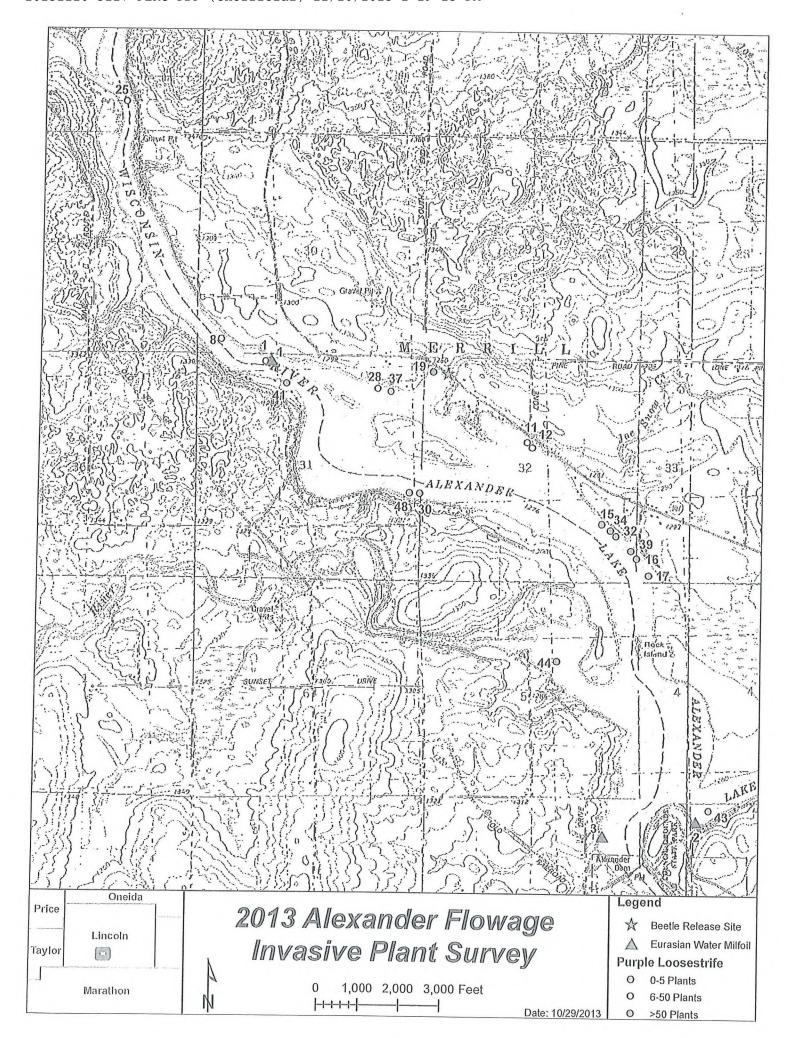
Sincerely

Darrin Johnson

Environmental Consultant

Enc.

APPENDIX: A PURPLE LOOSESTRIFE MONITORING RESULTS



Purple Loosestrife Survey Form Hydroelectric Project Inspection Date

			General Plant Vi	gor			
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
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3.		No	Plants	Noted			
4	_	NO	Plants	Notes			
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6	_	No	Plant	Noted			
. 7	_	No	Plants	Woted			
2	M	3	2	2	8	fair	
9		NO	Flacits	Noted			
10		NO	Plank	Noted			
(l	M	3	N	2	8	fair	

Purple Loosestrife Survey Form ctric Project

Hydroelectric Project
Inspection Date

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			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	M	3	2	l	6	Poor	
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22		No	Plants	Noted			

Purple Loosestrife Survey Form

Hydroelectric Project
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 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	<u> </u>	NO	Placets	Noted			
24	~	NO	Flourts	Noted			
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Purple Loosestrife Survey Form

Hydroelectric Project
Inspection Date

Purple Loosestrife Survey Form

Hydroelectric Project
Inspection Date

			General Plant V	gor	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=23-50% 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
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Purple Loosestrife Survey Form etric Project

Hydroelectric Project
Inspection Date

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		General Plant Vigor					
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APPENDIX B EURASIAN WATER MILFOIL MONITORING RESULTS

2013 EWM SURVEY RESULTS

July 23, 2013

Alexander

		Alexan	aer	
Transect #	0-0.5M	0.5M-1.5M	1.5M-3M	>3M
1A	0	NA	NA	NA
1B	0	0	NA	NA
1C	0	0	NA	NA
2A	0	NA	NA	NA
28	Û	0	NA	NA
20	0	Q	NA	NA
AE A	0	NA	NA	NA
3B	0	0	NA	NA
3C	0	0	0	NA

NA-Not applicable

Abundance Scale O=Absent, 1-Present, 2 Presence < 1/2, 3-Equal presence to other species
4- Dominant Species Present, 5- Total Infestation

Note: all transects are 40 feet in length and proceed away from shore in a direction perpendicular to the shoreling

APPENDIX C ZEBRA MUSSEL MONITORING

ZEBRA MUSSEL INSPECTION RESULTS WESTERN HYDROELECTRIC PROJECTS

HYDRO NAME

	Grandfather Falls Wausau	回 回	Merrill Alexander		Tomahawk Jersey		tter Rapids Iat Rapids
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DATE:			HLY INSPECTION		□ INSPECTION DUR	ING DRAW	DOWN
							- 1

Johnson, Darrin M

To:

'cheryl.laatsch@wisconsin.gov'; Nick Utrup (nick_utrup@fws.gov)

Subject:

FW: Alexander Zebra Mussel Monitoring

Attachments:

ALEX ZEBRAS.pdf

Expires:

Thursday, December 10, 2015 12:00 AM

Good Morning,

In reviewing our zebra mussel inspections for the Alexander Project, it was identified that zebra mussel inspections which were completed in April and May were not included in the invasive species report sent out in November. Attached is information regarding the April and May inspections provided by Operations. No zebra mussels were located during any of the 2013 inspections.

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: Bloczynski, William A

Sent: Tuesday, December 10, 2013 7:38 AM

To: Johnson, Darrin M

Subject: Alexander Zebra Mussel Monitoring

Darrin,

We found the dates we checked for zebra mussels in April and May. I had the operator put the information on the attached form.

William A. BloczynskiDarrin,

Supervisor | Regional Generation-West WI | Wisconsin Public Service

715-539-4016

715-218-0707 cell

715-539-4055 fax

wabloczynski@wisconsinpublicservice.com

www.wisconsinpublicservice.com

Follow WPSstorm on Twitter for timely outage updates.

Follow WPSforBiz on Twitter for energy-related info to help your business.

See how WPS is **Putting People First** in our Corporate Citizenship Report.

ZEBRA MUSSEL INSPECTION RESULTS WESTERN HYDROELECTRIC PROJECTS

HYDRO NAME

☐ Grandfather Falls ☐ ☐ Wausau ☑	Merrill Alexander		Tomahawk Jersey	☐ Otter Rapids ☐ Hat Rapids
INSPECTION TYPE: DATE: 4-28-13 COMMENTS/RESULTS:	MONTHLY INSPECTION None		☐ INSPECTION DUI	RING DRAWDOWN
INSPECTION TYPE: DATE: 5-15-13 COMMENTS/RESULTS:	MONTHLY INSPECTION O		☐ INSPECTION DUI	RING DRAWDOWN
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INSPECTION TYPE: DATE: COMMENTS/RESULTS:	MONTHLY INSPECTION —]	☐ INSPECTION DUR	ING DRAWDOWN

Johnson, Darrin M

To:

pmoy@aqua.wisc.edu

Subject:

FW: Alexander Zebra Mussel Monitoring

Attachments:

ALEX ZEBRAS.pdf

Expires:

Thursday, December 10, 2015 12:00 AM

Good Morning,

In reviewing our zebra mussel inspections for the Alexander Project, it was identified that zebra mussel inspections which were completed in April and May were not included in the invasive species report sent out in November. Attached is information regarding the April and May inspections provided by Operations. No zebra mussels were located during any of the 2013 inspections.

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

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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: Bloczynski, William A

Sent: Tuesday, December 10, 2013 7:38 AM

To: Johnson, Darrin M

Subject: Alexander Zebra Mussel Monitoring

Darrin,

We found the dates we checked for zebra mussels in April and May. I had the operator put the information on the attached form.

William A. BloczynskiDarrin,

Supervisor | Regional Generation-West WI | Wisconsin Public Service

715-539-4016

715-218-0707 cell

715-539-4055 fax

wabloczynski@wisconsinpublicservice.com

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ZEBRA MUSSEL INSPECTION RESULTS WESTERN HYDROELECTRIC PROJECTS

HYDRO NAME

☐ Grandfather Falls ☐ Wausau		Merrill Alexander		Tomahawk Jersey	☐ Otter Rapids ☐ Hat Rapids
INSPECTION TYPE: DATE: 4-28-12	3	NTHLY INSPECTIO	N	☐ INSPECTION D	URING DRAWDOWN
INSPECTION TYPE: DATE: _5-15-1 COMMENTS/RESULT	3	NTHLY INSPECTIO	N	☐ INSPECTION D	URING DRAWDOWN
INSPECTION TYPE: DATE: COMMENTS/RESULT		NTHLY INSPECTIO	N	☐ INSPECTION DI	URING DRAWDOWN
INSPECTION TYPE: DATE: COMMENTS/RESULT:		NTHLY INSPECTIO	N	☐ INSPECTION DU	JRING DRAWDOWN
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INSPECTION TYPE: DATE: COMMENTS/RESULTS		THLY INSPECTION		□ INSPECTION DU	RING DRAWDOWN

NO COMMENTS RECEIVED FROM FWS

NO COMMENTS RECEIVED FROM UW MANITOWOC

WDNR COMMENTS

Johnson, Darrin M

From:

Laatsch, Cheryl - DNR < Cheryl. Laatsch@wisconsin.gov>

Sent:

Tuesday, December 10, 2013 9:41 AM

To:

Johnson, Darrin M

Subject:

RE: Alexander Zebra Mussel Monitoring

Thanks Darrin.

Cheryl Laatsch

Statewide FERC Coordinator

Wisconsin Dept of Natural Resources

N7725 Hwy 28

Horicon WI 53032

(T) 920-387-7869 (Fax) 920-387-7888

Cheryl.laatsch@wisconsin.gov

From: Johnson, Darrin M [mailto:DMJohnson@integrysgroup.com]

Sent: Tuesday, December 10, 2013 9:40 AM

To: Laatsch, Cheryl - DNR; Nick Utrup (nick_utrup@fws.gov)

Subject: FW: Alexander Zebra Mussel Monitoring

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Document Content(s)
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