

Upper Peninsula Power Company

500 North Washington Street Ishpeming, MI 49849 www.UPPCO.com

December 26, 2014

FERC Project No. 1864

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

Dear Secretary Bose:

Bond Falls Hydroelectric Project

Article 411 Noxious Plants Monitoring Plan – 2014 Purple Loosestrife and Eurasian Water Milfoil Survey Results and Five Year EWM Monitoring Report and Cisco Chain of Lakes Nuisance Plant Control Plan Results

As per the Federal Energy Regulatory Commission (FERC) Order Modifying and Approving Article 411 Nuisance Plant Control Plan issued February 24, 2005, the Upper Peninsula Power Company (UPPCO) is required to submit the results of the purple loosestrife (PL) and Eurasian water milfoil (EWM) monitoring surveys for the Bond Falls Hydroelectric Project (FERC Project No. 1864) to the Bond Falls Implementation Team (BFIT).

In addition, per the FERC Order Modifying and Approving the Five-Year Report for EWM at the Bond Falls (FERC Project No. 1864-01), Victoria Falls (FERC Project No. 1864-02) and the Bergland Development (FERC Project No. 1864), dated May 5, 2011, UPPCO is to submit the five-year EWM survey results. The monitoring report shall contain a comparison of all date and a recommendation for the frequency of future EWM monitoring.

Finally, per the Notice of Proposed Changes to the Bond Falls Hydroelectric Project Approved Nuisance Plant Control Plan provided to FERC on June 7, 2011, UPPCO is to annually provide the PL and EWM survey results for the Cisco Chain of Lakes (FERC Project No. 1864).

The results of the PL and EWM annual survey and EWM Five-Year Report are to be filed with FERC by December 31, 2014. The FERC report shall include any comments provided by the BFIT.

2014 Bond Falls Hydroelectric Projects – PL Survey Results

Surveys for PL were completed at the Bond Falls reservoir on August 14, 2014, and for the Bergland Development, beginning at the end of August through September 2014.

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A survey for PL at the Victoria Falls reservoir was not completed until October 22, 2014.

UPPCO awarded the proposal to complete the PL survey at the Victoria Falls reservoir well within the optimal PL identification period. However, the awarded purchase order was sent via electronic mail and was later found not to be received by the consultant.

Even though the PL survey was completed outside of the optimal identification period, the consultant did indicate that emergent vegetation was still intact and visible. In addition, the consultant is a trained botanist and would be able to identify PL outside of the optimal identification period.

Corrections to the consultant purchase order process have been implemented to address the issue. UPPCO apologizes for any inconvenience.

No PL was identified at the Bond Falls and Victoria Falls reservoirs. PL has not been observed at these reservoirs since first completing PL surveys in 2005.

Purple Loosestrife was once again observed at the Bergland Development. As in the past, nine colonies were identified as being located within the project boundary. Only two the colonies were considered large (50+ plants).

In consultation with the BFIT, UPPCO provided funding to the Lake Gogebic Improvement Association (LGIA) to control purple loosestrife on the reservoir. From August through September, the LGIA completed a hand pull and/or burn control on five colonies. However control at the two largest colonies was hindered this year due to lack of available biological control; (galerucella sp.) beetles at one colony and curtailed due to safety concerns; the presence of bald face hornets (Dolichovespula maculata), at the other large colony.

The purple loosestrife survey results for the Bergland Development are included in Appendix A.

2014 Bond Falls Hydroelectric Projects – EWM Survey Results

EWM surveys were completed at the Bergland Development from late August through September of 2014. No EWM was observed at any of the five transect locations.

A survey for EWM at Bond Falls and Victoria Falls reservoir was not completed until October 22, 2014.

UPPCO awarded the proposal to complete the EWM survey at the reservoirs well within the optimal EWM identification period. However, the awarded purchase order was sent via electronic mail and was later found not to be received by the consultant.

Even though the EWM survey was completed outside of the optimal identification period, the consultant did indicate that aquatic vegetation was plentiful and in overall fair health. In addition, the consultant is a trained botanist and would be able to identify EWM outside of the optimal identification period. No EWM was identified at the Bond Falls and Victoria Falls reservoirs.

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Corrections to the consultant purchase order process have been implemented to address the issue. UPPCO apologizes for any inconvenience.

EWM has not been observed at any of the three reservoirs during any of the EWM surveys being in 2005. The EWM survey results are included in Appendix B.

EWM Five Year Report for Bond Falls, Victoria Falls and Bergland Development In 2005 UPPCO selected EWM transect sample locations at Bond Falls and Victoria Falls reservoirs and the Bergland Development. A total of ten transect sample locations were established near boat landings and other areas of high public use. These sample locations were selected because they would most likely be the first location where EWM would be introduced into a water system.

Over the past five years, UPPCO has been completing surveys of the EWM transects at these same EWM transect locations. EWM has not been observed at any of the EWM transect sample locations.

Although EWM has not been observed at any of the transect sample locations nor within their respective reservoirs, UPPCO recommends maintaining the current EWM sampling methodology and completing the EWM surveys on an annual basis.

UPPCO believes that because EWM has not been observed to date, maintaining the current sampling methods will provide UPPCO with the best opportunity to quickly address and control and/or eliminate EWM if found on the Bond Falls and Victoria Falls reservoirs and Bergland Development.

EWM survey results from years 2010 through 2014 are included in Appendix C.

2014 Cisco Chain of Lakes - PL and EWM Survey Results

Purple loosestrife surveys on the Cisco Chain of Lakes were completed from August through September of 2014. Purple loosestrife was observed on Thousand Island Lake. The need for Purple loosestrife control will be discussed at the BFIT meeting this March/April.

Eighteen EWM transect sample surveys and a meandering survey was also completed from August through September of 2014 on the Cisco Chain of Lakes. EWM was identified at one transect location on Thousand Island Lake. The meandering boat sample also identified EWM stands at two other locations on Thousand Island Lake, outside of the transect locations. The EWM transect and location figure and information sheet is included as Appendix D.

Updates on EWM control activities will be provided and discussed at the BFIT meeting this March/April.

UPPCO provided the results of the PL and EWM annual survey and EWM Five-Year Report to the BFIT on October 29, 2014. The U.S. Fish and Wildlife Service provided general comments indicating that the two invasive plant species do not appear to be a problem. Documentation of consultation is included in Appendix E.

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Should you have any questions relative to this material, please do not hesitate to contact Jamie Nuthals at (920) 433-1460.

Sincerely,

Gil Snyder

Manager – Regional Generation for Wisconsin Public Service

jdn/rjf

Enc:

cc: Mr. John Myers, IBS - D2

Mr. Shawn Puzen, IBS - D2 Mr. Ben Trotter, IBS - D2

Ms. Joan Johanek, WPS - D2

Mr. James Melchiori, UPPCO - UVD

Mr. Robert Meyers, UPPCO - UISC

Mr. Keith Moyle, UPPCO - UISC

Mr. Virgil Schlorke, UPPCO - UISC

Mr. John Zygaj, FERC - CRO

APPENDIX A



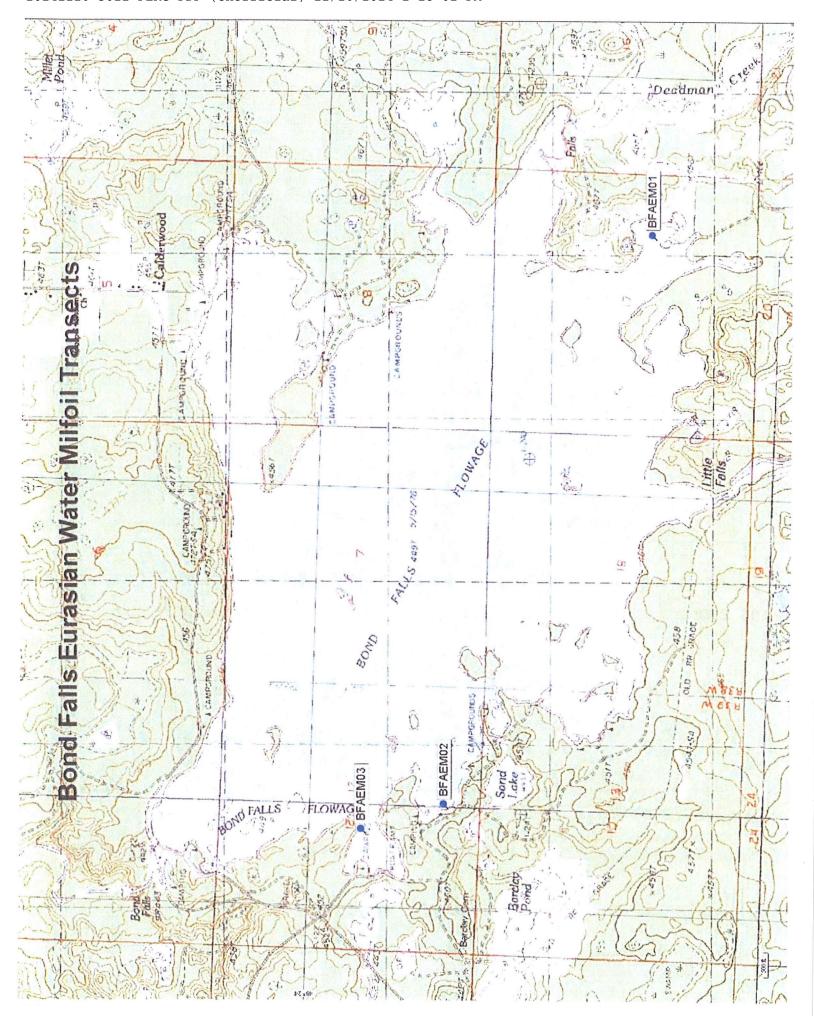
Purple Loostrife Data Collection Sheet 28-Oct-14 Lake Gogebic-Ontonagon/Gogebic Counties-Michigan

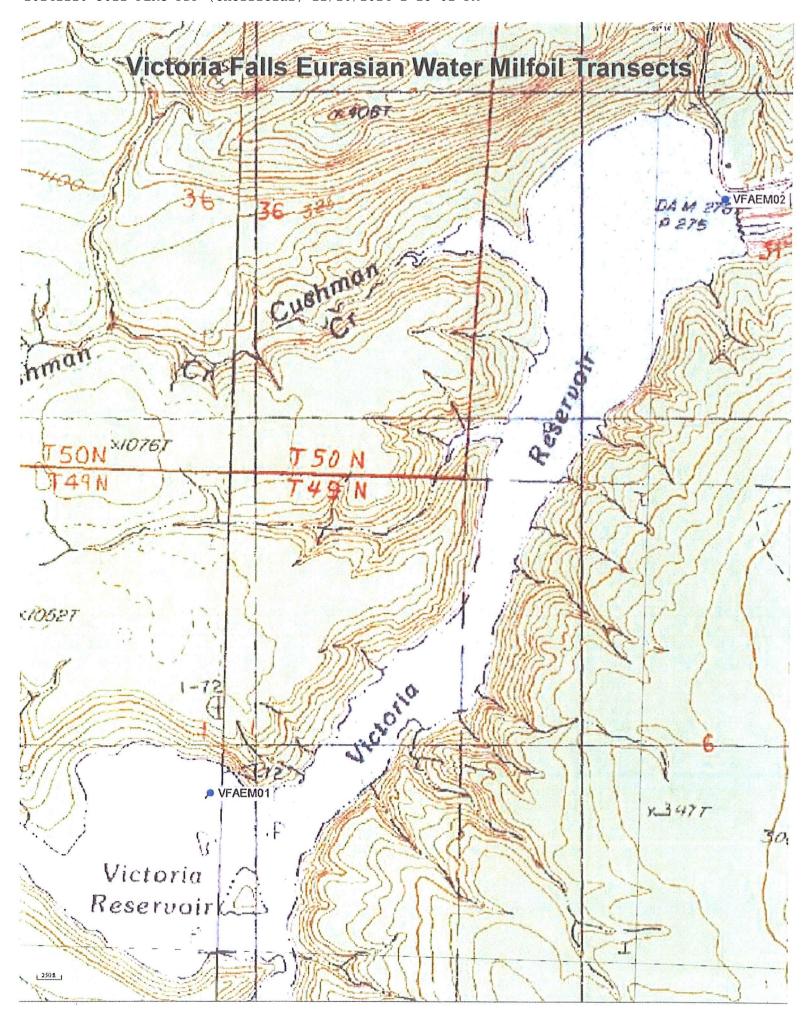
Plant ID Number	Latitude	Longitude	Abundance Scale	Control Method
1023	46.41001	-89.5545	none found	no action need
2766	46.40611	-89.55087	small patch	pulled and burn
2767	46.40613	-89.54654	small patch	pulled and burn
2768	46.41153	-89.5424	very large expanse	no Garucella bee
				available, no action
4236	46.40745	-89.55001	large patch	cut, pulled and bu
4237	46.4093	-89.55146	medium patch	cut, pulled and bu
4238	46.4069	-89.55214	small patch	pulled and burne
4065	46.41272	-89.53853	none found	no action neede
4066	46.45917	-89.52847	medium patch	attempted action re
				by hornet infestat
				,

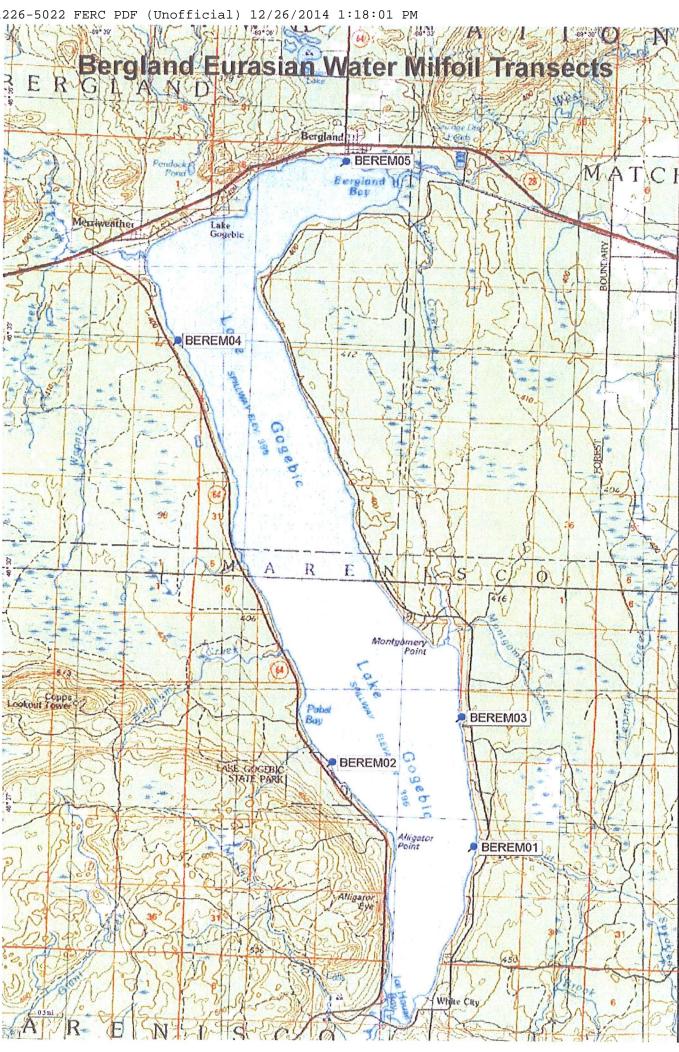
Plant Abundance Scale: Small 1-5 plants, Medium 6-50 plant , Large 50 + plants

0

APPENDIX B







Mr. Jamie Nuthals October 28, 2014 Project No. D141704.00

Results:

The following tables summarize the findings of the field surveys:

Table 1

BOND FALLS HYDROELECTRIC PROJECT EURASIAN WATER MILFOIL SURVEY

OCTOBER 22, 2014

Transect #	0-0.5m	0.5-1.5m	1.5-30m	>3.0m	Origin	Notes
1A	0	0	NA	NA	N 46 22,917	Potomogeton present
1B	0	0	NA	NA	W 89 04.757	
1C	0	0	0	NA		
2A	0	0	NA	NA	N 46 23.553	Elodea, Potomogeton, Ceratophyllum present
2B	0	0	NA	NA	W 89 07.503	
2C	0	0	NA	NA		
3A	0	0	NA	NA	N 46 23.827	Potomogeton sparsely present
3B	0	0	NA	NA	W 89 07.631	
3C	0	0	0	NA		

Table 2
VICTORIA FALLS HYDROELECTRIC PROJECT EURASIAN WATER MILFOIL SURVEY
OCTOBER 22, 2014

Transect #	0-0.5m	0.5-1.5m	1.5-30m	>3.0m	Origin	Notes
1A	0	0	NA	NA	N 46 40.259	Potomogeton present
1B	0	0	0	NA	W 89 15.038	
1C	0	0	0	NA		
2A	0	0	NA	NA	N 46 41.266	Potomogeton present
2B	0	0	NA	NA	W 89 13.837	
2C	0	0	NA	NA		



	E	urasian Milfoil Sur	veys	
	E	Bergland Develop	ment	
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	N/A	N/A
1B	0	0	N/A	N/A
1C	0	0	N/A	N/A
2A	0	0	N/A	N/A
2B	0	0	0	N/A
2C	0	0	0	N/A
3A	0	0	N/A	N/A
3B	0	0	0	N/A
3C	0	0	0	0
4A	0	N/A	N/A	N/A
4B	0	0	N/A	N/A
4C	0	0	0	0
5A	0	N/A	N/A	N/A
5B	0	0	0	0
5C	0	0	0	0

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species, 4-Dominant Species Present, 5-Total Infestation

APPENDIX C

Appendix A: Tables

Bond Falls

Date:	7/23/2010	Time:	6pm-8pm				
Lake:	Bond Falls	Surveyors:	Todd Macc	o, Ed Shaw			
Weather:	Clear	Condition:	Water Leve	Water Level Down, Res		ned	
Eurasian M	lilfoil Survey	1					
Transect#	Pics	05M	.5-1.5M	1.5-3.0M	>3.0M	Origin	Comments
1A	1-12	0	0	0	0	N46 23.801	No Purple Loosestrife, No Eurasian Milfoil
1B		0	0	0	0	W89 7.369	
1C		0	0	0	0		
2A	13-37	0	0	0	0	N46 24.170	No Purple Loosestrife, No Eurasian Milfoil
2B	32	0	0	0	0	W89 6.189	Native Milfoil, Thick Mat
2C		0	0	0	0		
3A	38-44	0	0	0	0	N46 24.308	No Purple Loosestrife, No Eurasian Milfoil
3B		0	0	0	0	W89 7.279	Native Milfoil
3C		0	0	0	0		
4A	45-47	0	0	0	0	N46 23.737	No Purple Loosestrife, No Eurasian Milfoil
4B		0	0	0	0	W89 7.777	Boat Launch
4C		0	0	0	0		
5A		0	0	0	0	N46 24.078	No Purple Loosestrife, No Eurasian Milfoil
5B		0	0	0	0	W89 6.169	
5C		0	0	0	0		
0-Absent, 1	-Presence le	ess than half	, 2-Equal co	mpared to	other speci	es,	
3-Dominan	t, 4-Total inf	estation					
Note: All Ti	ransects are	40 feet in le	ength and p	roceed awa	y from shor	e in a direction	on perpendicular to the shoreline

Victoria Falls

Date:	7/24/2010	Time:	6pm-8pn	1			
Lake:	Victoria Falls	Surveyors:	Todd Ma	cco, Ed Sh	aw		
Weather:	Clear	Lake Condi	Good				
Eurasian M	lilfoil Survey						
Transect#	Pics	05M	.5-1.5M	1.5-3.0M	>3.0M	Origin	Comments
1A	207-213	0	0	0	0	N46 41.269	No Purple Loosestrife, No Eurasian Milfoil
1B	214-221	0	0	0	0	W89 13.827	No Signage
1C		0	0	0	0		
2A	236-237	0	0	0	0	N46 40.257	No Purple Loosestrife, No Eurasian Milfoil
2B	238-239	0	0	0	0	W89 15.021	
2C		0	0	0	0		
0-Absent, 1	-Presence less	than half, 2-	Equal cor	npared to	other sp	ecies,	
3-Dominan	t, 4-Total infest	ation					
Note: All T	ransects are 40	feet in leng	th and pr	oceed awa	y from s	hore in a dire	ction perpendicular to the shoreline

Lake Gogebic

Date: 7/24/2010 Time: 8am-4pm Lake: Gogebic Surveyors: Todd Macco, Ed Shaw Weather: Rain Condition: Good Comments Eurasian Milfoil Survey Transect# Pics 05M .5-1.5M 1.5-3.0M >3.0M Origin Comments 1A 138-149 0 0 0 0 N46 27.650 No Purple Loosestrife, No Eurasian Milfoil 1B 0 0 0 0 W89 34.250 1C 0 0 0 0 No Purple Loosestrife, No Eurasian Milfoil 2A 155-158 0 0 0 W89 37.388								
Weather: Rain Condition: Good Good Eurasian Milfoil Survey Fics 05M .5-1.5M 1.5-3.0M >3.0M Origin Comments 1A 138-149 0 0 0 0 N46 27.650 No Purple Loosestrife, No Eurasian Milfoil 1B 0 0 0 0 W89 34.250 1C 0 0 0 0 2A 155-158 0 0 0 N46 32.957 No Purple Loosestrife, No Eurasian Milfoil 2B 0 0 0 W89 37.388	Date:	7/24/2010	Time:	8am-4pm				
Eurasian Milfoil Survey Comments 1A 138-149 0 0 0 0 N46 27.650 No Purple Loosestrife, No Eurasian Milfoil 1B 0 0 0 0 W89 34.250 1C 0 0 0 0 2A 155-158 0 0 0 N46 32.957 No Purple Loosestrife, No Eurasian Milfoil 2B 0 0 0 W89 37.388	Lake:	Gogebic	Surveyors:	Todd Macco,	Ed Shaw			
Transect# Pics 05M .5-1.5M 1.5-3.0M >3.0M Origin Comments 1A 138-149 0 0 0 0 N46 27.650 No Purple Loosestrife, No Eurasian Milfoil 1B 0 0 0 0 W89 34.250 1C 0 0 0 0 2A 155-158 0 0 0 N46 32.957 No Purple Loosestrife, No Eurasian Milfoil 2B 0 0 0 W89 37.388	Weather:	Rain	Condition:	Good				
1A 138-149 0 0 0 0 No Purple Loosestrife, No Eurasian Milfoil 1B 0 0 0 0 W89 34.250 1C 0 0 0 0 2A 155-158 0 0 0 N46 32.957 No Purple Loosestrife, No Eurasian Milfoil 2B 0 0 0 W89 37.388	Eurasian N	/lilfoil Survey	7					
1B 0 0 0 0 W89 34.250 1C 0 0 0 0 2A 155-158 0 0 0 N46 32.957 No Purple Loosestrife, No Eurasian Milfoil 2B 0 0 0 W89 37.388	Transect#	Pics	05M	.5-1.5M	1.5-3.0M	>3.0M	Origin	Comments
1C 0 0 0 0 2A 155-158 0 0 0 0 N46 32.957 No Purple Loosestrife, No Eurasian Milfoil 2B 0 0 0 0 W89 37.388	1A	138-149	0	0	0	0	N46 27.650	No Purple Loosestrife, No Eurasian Milfoil
2A 155-158 0 0 0 0 N46 32.957 No Purple Loosestrife, No Eurasian Milfoil 2B 0 0 0 W89 37.388	1B		0	0	0	0	W89 34.250	
2B 0 0 0 W89 37.388	1C		0	0	0	0		
	2A	155-158	0	0	0	0	N46 32.957	No Purple Loosestrife, No Eurasian Milfoil
	2B		0	0	0	0	W89 37.388	
	2C		0	0	0	0		
3A 167-175 0 0 0 N46 35.297 No Purple Loosestrife, No Eurasian Milfoil	3A	167-175	0	0	0	0	N46 35.297	No Purple Loosestrife, No Eurasian Milfoil
3B 0 0 0 W89 34.428	3B		0	0	0	0	W89 34.428	
3C 0 0 0 0	3C		0	0	0	0		
4A 178-185 0 0 0 N46 28.288 No Purple Loosestrife, No Eurasian Milfoil,	4A	178-185	0	0	0	0	N46 28.288	No Purple Loosestrife, No Eurasian Milfoil,
4B 0 0 0 W89 31.877	4B		0	0	0	0	W89 31.877	
4C 0 0 0 0	4C		0	0	0	0		
5A 201-206 0 0 0 N46 26.672 No Purple Loosestrife, No Eurasian Milfoil,	5A	201-206	0	0	0	0	N46 26.672	No Purple Loosestrife, No Eurasian Milfoil,
5B 0 0 0 W89 31.547	5B		0	0	0	0	W89 31.547	
5C 0 0 0 0	5C		0	0	0	0		
O-Absent, 1-Presence less than half, 2-Equal compared to other species,	0-Absent,	1-Presence le	ss than half,	2-Equal comp	ared to ot	her species	,	
3-Dominant, 4-Total infestation	3-Dominar	nt, 4-Total inf	estation					
Note: All Transects are 40 feet in length and proceed away from shore in a direction perpendicular to the shoreline	Note: All T	ransects are	40 feet in ler	ngth and proce	eed away f	rom shore	in a direction	perpendicular to the shoreline

Purple Loo	sestrife Surv	еу							
Site	Pics	Lat	Long	Amount	Comments	omments			
1	48-70	N46 24.555	W89 33.089	В	No Eurasia	n Milfoil, 20 p	urple loosestrife plants, no signs of beetles		
2	71-99	N46 24.257	W89 33.297	0	No Purple L	lo Purple Loosestrife, No Eurasian Milfoil,			
3	100-106	N46 24.440	W89 32.988	С	No Eurasia	n Milfoil, 50+	purple loosestrife plants, no signs of beetles,		
					Peat Bog D	Peat Bog Difficult Access			
4	110-121	N46 24.664	W89 32.508	С	No Eurasiar	lo Eurasian Milfoil, 50+ purple loosestrife plants, no signs of beetles			
					Sites 4 and 5 of 2009 found to occur in same relative location				
5	122-125	N46 24.744	W89 32.382	Α	No Eurasian Milfoil, 2 purple loosestrife plants, no signs of beetles				
					New Site no	New Site not listed in 2009 Survey			
6	132-135	N46 24.763	W89 32.314	Α	No Eurasiar	n Milfoil, 1 pu	rple loosestrife plants, no signs of beetles		
7	136-137	N46 24.697	W89 32.549	Α	No Eurasiar	n Milfoil, 2 pu	rple loosestrife plants, no signs of beetles		
8	197-200	N46 27.550	W89 31.707	В	No Eurasiar	n Milfoil, 20 p	urple loosestrife plants, no signs of beetles		
A-Small Co	A-Small Colonies of 1-5 Plants								
B-Medium	B-Medium Colonies of 6-50 Plants								
C-Dense Co	olonies of >5	0 Plants							
0-Absent									

Eur	asian Milfo	oil Survey - A	ugust 1, 201	1
Bon	d Falls, On	tonagon Cou	inty, Michiga	n
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	NA	NA
1B	0	0	NA	NA
1C	0	0	NA	NA
2A	0	0	NA	NA
2B	0	0	NA	NA
2C	0	0	NA .	0
3A	0	0	NA	NA
3B	0	0	NA	NA
3C	0	0	NA	0

	Abundance Scale
0	Absent
1	Present
2	Abundance Less than Half
3	Equal Presence Compared to Other Species
4	Dominant Species
5	Total Infestation

Eur	asian Milfo	oil Survey - A	ugust 1, 201	1
		ntonagon Co		
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	NA	NA
1B	0	0	0	NA
1C	0	0	0	NA
2A	0	0	NA	NA
2B	0	0	NA	NA
2C	0	0	0	NA

	Abundance Scale
0	Absent
1	Present
2	Abundance Less than Half
3	Equal Presence Compared to Other Species
4	Dominant Species
5	Total Infestation

r				
			ugust 2, 201	
			ınty, Michiga	
Transect #	0 - 0.5 M	M 0.5 - 1.5 M 1.5 - 3.0 M		
1A	0	0	NA	NA
1B	0	0	NA	NA
1C	0	0	NA	NA
2A	0	0	NA	NA
2B	0	0	NA	NA
2C	0	0	0	NA
3A	0	0	NA	NA
3B	0	0	0	NA
3C	0	0	0	NA
4A	0	0	NA	NA
4B	0	0	NA	NA
4C	0	0	NA	NA
5A	0	0	NA	NA
5B	0	0	NA	NA
5C	0	0	NA	NA

	Abundance Scale
0	Absent
1	Present
2	Abundance Less than Half
3	Equal Presence Compared to Other Species
4	Dominant Species
5	Total Infestation

Eura	sian Milfo	il Survey - Αι	gust 27, 201	2				
Bone	d Falls, On	tonagon Cou	nty, Michiga	n				
Transect #	Transect # 0 - 0.5 M 0.5 - 1.5 M 1.5 - 3.0 M > 3.0 N							
1A	0	0	NA	NA				
1B	0	0	NA	NA				
1C	0	0	NA	NA				
2A	0	0	NA	NA				
2B	0	0	NA	NA				
2C	0	0	NA	0				
3A	0	0	NA	NA				
3B	0	0	NA	NA				
3C	0	0	NA	0				

	Abundance Scale
0	Absent
1	Presence Less than Half
2	Equal Presence Compared to Other Species
3	Dominant Species
4	Total Infestation

Eurasian Milfoil Survey - August 27, 2012							
Victor	ria Falls, Oı	ntonagon Co	unty, Michig	an			
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M			
1A	0	0	NA	NA			
1B	0	0	0	NA			
1C	0	0	0	NA			
2A	0	0	NA	NA			
2B	0	0	NA	NA			
2C	0	0	0	NA			

	Abundance Scale					
0	Absent					
1	Presence Less than Half					
2	Equal Presence Compared to Other Species					
3	Dominant Species					
4	Total Infestation					

Eurasian Milfoil Survey - August 28, 2012							
Lake Gogebic, Gogebic County, Michigan							
Transect # 0 - 0.5 M 0.5 - 1.5 M 1.5 - 3.0 M > 3.							
1A	0	0	NA	NA			
1B	0	0	NA	NA			
1C	0	0	NA	NA			
2A	0	0	NA	NA			
2B	0	0	NA	NA			
2C	0	0	0	NA			
3A	0	0	NA	NA			
3B	0	0	0	NA			
3C	0	0	0	NA			
4A	0	0	NA	NA			
4B	0	0	NA	NA			
4C	0	0	NA	NA			
5A	0	0	NA	NA			
5B	0	0 .	NA	NA			
5C	0	0	NA	NA			

	Abundance Scale					
0	Absent					
1	Presence Less than Half					
2	Equal Presence Compared to Other Species					
3	Dominant Species					
4	Total Infestation					

	Ει	ırasian Milfoil Su	rveys	
	Bond	Falls Hydroelectr	ric Project	
		8-Aug-13		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Transect#	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	N/A	N/A
1B	0	0	N/A	N/A
1C	0	0	N/A	N/A
2A	0	0	N/A	N/A
2B	0	0	N/A	N/A
2C	0	0	N/A	N/A
3A	0	0	N/A	N/A
3B	0	0	0	N/A
3C	0	0	0	0

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species, 4-Dominant Species Present, 5-Total Infestation

Lake Gogebic Eurasian Watermilfoil Survey - August 8 and 9, 2013

White Water Associates Field Staff: Caitlin Clarke and Angie Stine Gogebic and Ontonagon Counties, Michigan



Transect#	0-0.5 m	0.5-1.5 m	1.5-3.0 m	>3.0 m	Origin	Notes	
1A	0	0	NA	NA	N 46 26.642	No aquatic plants	
1B	0	0	NA	NA	W 89 31.587	observed. A few hundred feet south of Trout Brook.	
1C	0	0	NA	NA	(46.44403, -89.52645)	Substrate of rock and cobble.	
2A	0	0	NA	NA	N 46 27.653	No aquatic plants	
2B	0	0	0	NA	W 89 34.259	observed. In front of	
2C	0	0	0	0	(46.46088, -89.57098)	campsites. Substrate of rock and cobble.	
3A	0	0	NA	NA	N 46 28.294	No aquatic plants	
3B	0	0	0	NA	W 89 31.883	observed. South of boat landing a few hundred feet	
3C	0	0	0	0	46.47157, -89.53138)	in small cove. Substrate of rock and cobble.	
4A	0	NA	NA	NA	N 46 32.964	Valisneria Americana	
4B	0	0	NA	NA	W 89 37.401	present. Thirty feet north of park with sand beach	
- 4C	0	0	0	0	(46.54940, -89.62335)	and boat launch. Substrate of sand and rock.	
5A	0	NA	NA	NA		Valisneria Americana and	
5B	0	0	0	0	N 46 35.338 W 89 34.391	Potamogeton richardsonii present. Fifty feet west of	
5C	0	0	0	0	(46.58897, -89.57318)	Bergland boat launch on east side of large concrete pier. Substrate of sand and rock	

NA: Not Applicable

Abundance Scale: 0-EWM absent, 1-EWM present, 2 –EWM presence less than half, 3-EWM equal presence compared to other species, 4-EWM dominant species present, 5-EWM total infestation.

Note: Transects are 40 ft long and proceed away from shore in a direction perpendicular to the shoreline

Mr. Jamie Nuthals October 28, 2014 Project No. D141704.00

Results:

The following tables summarize the findings of the field surveys:

Table 1
BOND FALLS HYDROELECTRIC PROJECT EURASIAN WATER MILFOIL SURVEY
OCTOBER 22, 2014

Transect #	0-0.5m	0.5-1.5m	1.5-30m	>3.0m	Origin	Notes
1A	0	0	NA	NA	N 46 22,917	Potomogeton present
1B	0	0	NA	NA	W 89 04.757	
1C	0	0	0	NA		
2A	0	0	NA	NA	N 46 23.553	Elodea, Potomogeton, Ceratophyllum present
2B	0	0	NA	NA	W 89 07.503	
2C	0	0	NA	NA		
3A	0	0	NA	NÀ	N 46 23.827	Potomogeton sparsely present
3B	0	0	NA	NA	W 89 07.631	
3C	0	0	0	NA		

Table 2
VICTORIA FALLS HYDROELECTRIC PROJECT EURASIAN WATER MILFOIL SURVEY
OCTOBER 22, 2014

Transect #	0-0.5m	0.5-1.5m	1.5-30m	>3.0m	Origin	Notes
1A	0	0	NA	NA	N 46 40.259	Potomogeton present
1B	0	0	0	NA	W 89 15.038	
1C	0	0	0	NA		
2A	0	0	. NA	NA	N 46 41.266	Potomogeton present
2B	0	O O	NA	NA	W 89 13.837	
2C	0	0	NA	NA		



	E	urasian Milfoil Su	rveys				
	Bergland Development						
Transect #	0 - 0.5 M						
1A	0	0	N/A	N/A			
1B	0	0	N/A	N/A			
1C	0	0	N/A	N/A			
2A	0	0	N/A	N/A			
2B	0	0	0	N/A			
2C	0	0	0	N/A			
3A	0	0	N/A	N/A			
3B	0	0	0	N/A			
3C	0	0	0	0			
4A	0	N/A	N/A	N/A			
4B	0	0	N/A	N/A			
4C	0	0	0	0			
5A	0	N/A	N/A	N/A			
5B	0	0	0	0			
5C	0	0	0	0			

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species, 4-Dominant Species Present, 5-Total Infestation

APPENDIX D

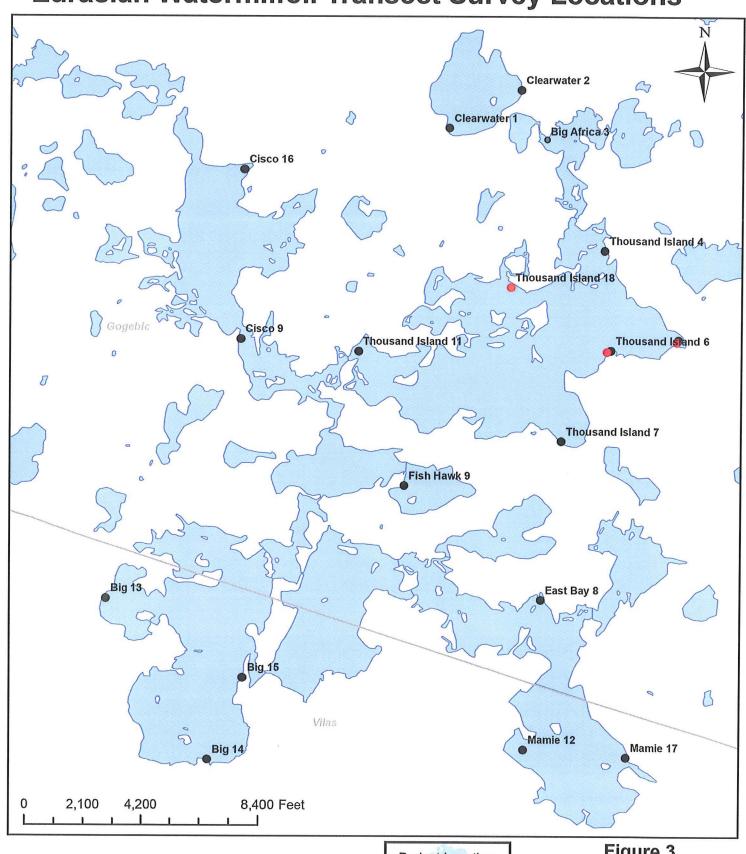
2014 Ci	sco Chain EWM Transe	ect Survey	Results	
Lake Name	Depth Quarter (m)	Transect ID		
		1A	1B	1C
Clearwater	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		2A	2B	2C
Clearwater	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		3A	3B	3C
Big Africa	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		4A	4B	4C
Thousand Island	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		5A	5B	5C
Thousand Island	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		6A	6B	6C
Thousand Island	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		7A	7B	7C
Thousand Island	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0

Lake Name Depth Quarter (m) Transect ID	2014 Ci	sco Chain FWM Transe	ect Survey	Results	
East Bay					
0.5-1.5					
1.5-3.0		The state of the s			
S3.0 depth did not exceed 3m					
Section Sect					
Fishhawk 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0 >3.0 0 0 0 10A 10B 10C Cisco 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 >3.0 depth did not exceed 3m 11A 11B 11C Thousand Island 0-0.5 0 0 0 0 0.5-1.5 0 0 0 0 0 0 0 1.5-3.0 0		7 3.0	асрит	I	I
Fishhawk 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0 >3.0 0 0 0 10A 10B 10C Cisco 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 >3.0 depth did not exceed 3m 11A 11B 11C Thousand Island 0-0.5 0 0 0 0 0.5-1.5 0 0 0 0 0 0 0 1.5-3.0 0			9Δ	98	90
0.5-1.5	Fishhawk	0-0.5			
1.5-3.0	Tisimawk				
S3.0					
10A 10B 10C					
Cisco 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0 3.0 depth did not exceed 3m 11A 11B 11C Thousand Island 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 3.0 depth did not exceed 3m 0 0 0 3.0 depth did not exceed 3m 0 0 0 3.0 depth did not exceed 3m 0 0 0 3.0 depth did not exceed 3m 0 0 0 4 12A 12B 12C 12C Mamie 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 1.5-3.0 0 0 0 0 1.5-3.0 0 0 0 0 1.5-3.0 0 0 <th></th> <th>7 3.0</th> <th></th> <th></th> <th></th>		7 3.0			
Cisco 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0 3.0 depth did not exceed 3m 11A 11B 11C Thousand Island 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 3.0 depth did not exceed 3m 0 0 0 3.0 depth did not exceed 3m 0 0 0 3.0 depth did not exceed 3m 0 0 0 3.0 depth did not exceed 3m 0 0 0 4 12A 12B 12C 12C Mamie 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 1.5-3.0 0 0 0 0 1.5-3.0 0 0 0 0 1.5-3.0 0 0 <th></th> <th></th> <th>10A</th> <th>10B</th> <th>10C</th>			10A	10B	10C
0.5-1.5	Cisco	0-0.5		CONTRACTOR OF PARTIES AND ADDRESS.	
1.5-3.0					
Thousand Island 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 3.0 depth did not exceed 3m depth did not exceed 3m 12A 12B 12C Mamie 0-0.5 0					
Thousand Island 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 3.0 depth did not exceed 3m depth did not exceed 3m 12A 12B 12C Mamie 0-0.5 0			depth		
Thousand Island 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 2.3.0 depth did not exceed 3m depth did not exceed 3m 12C 12A 12B 12C Mamie 0-0.5 0					200000000000000000000000000000000000000
0.5-1.5			11A	11B	11C
0.5-1.5	Thousand Island	0-0.5	0	0	0
1.5-3.0					
Namie O-0.5 O O O O			0		
12A 12B 12C			depth did not exceed 3r		eed 3m
Mamie 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 >3.0 0 0 0 0 Big 0-0.5 0 0 0 0 1.5-3.0 0 0 0 0 0 >3.0 0 0 0 0 0 Big 0-0.5 0 0 0 0 0.5-1.5 0 0 0 0 0 14A 14B 14C 0					
0.5-1.5 0 0 0 1.5-3.0 0 0 0 >3.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1.5-3.0 0 0 0 0 0 0 0 14A 14B 14C Big 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0			12A	12B	12C
1.5-3.0	Mamie	0-0.5	0	0	0
>3.0		0.5-1.5	0	0	0
Big 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0 >3.0 0 0 0 14A 14B 14C Big 0-0.5 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0		1.5-3.0	0	0	0
Big 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 >3.0 0 0 0 0 14A 14B 14C 14C 14C 0 <		>3.0	0	0	0
Big 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0 >3.0 0 0 0 0 14A 14B 14C 14C 14C 0 <					
0.5-1.5 0 0 0 1.5-3.0 0 0 0 >3.0 0 0 0 14A 14B 14C Big 0-0.5 0 0 0 0.5-1.5 0 0 0 0 1.5-3.0 0 0 0 0			13A	13B	13C
1.5-3.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Big	0-0.5	0	0	0
>3.0 0 0 14A 14B 14C Big 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0		0.5-1.5	0	0	0
Big 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0		1.5-3.0	0	0	0
Big 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0		>3.0	0	0	0
Big 0-0.5 0 0 0 0.5-1.5 0 0 0 1.5-3.0 0 0 0					
0.5-1.5 0 0 0 1.5-3.0 0 0 0			14A	14B	14C
1.5-3.0 0 0 0	Big	0-0.5	0	0	0
		0.5-1.5	0	0	0
>3.0 0 0 0		1.5-3.0		0	0
		>3.0	0	0	0

2014 Cisco Chain EWM Transect Survey Results					
Lake Name	Depth Quarter (m)	Transect ID			
		15A	15B	15C	
Big	0-0.5	0	0	0	
	0.5-1.5	0	0	0	
	1.5-3.0	0	0	0	
	>3.0	0	0	0	
		16A	16B	16C	
Cisco	0-0.5	0	0	0	
	0.5-1.5	0	0	0	
	1.5-3.0	0	0	0	
	>3.0	0	0	0	
		17A	17B	17C	
Mamie	0-0.5	0	0	0	
	0.5-1.5	0	0	0	
	1.5-3.0	0	0	0	
	>3.0	0	0	0	
		18A	18B	18C	
Thousand Island	0-0.5	0	0	1	
	0.5-1.5	0	0	0	
	1.5-3.0	0	0	0	
	>3.0	0	0	0	

Key				
Ranking Description				
0	EWM absent			
1	EWM present on less than half			
2	EWM equal compared to other species			
3	EWM dominant			
4	EWM total infestation			

Cisco Chain of Lakes Eurasian Watermilfoil Transect Survey Locations



Location: Cisco Chain of Lakes, Gogebic County, MI & Vilas County, WI

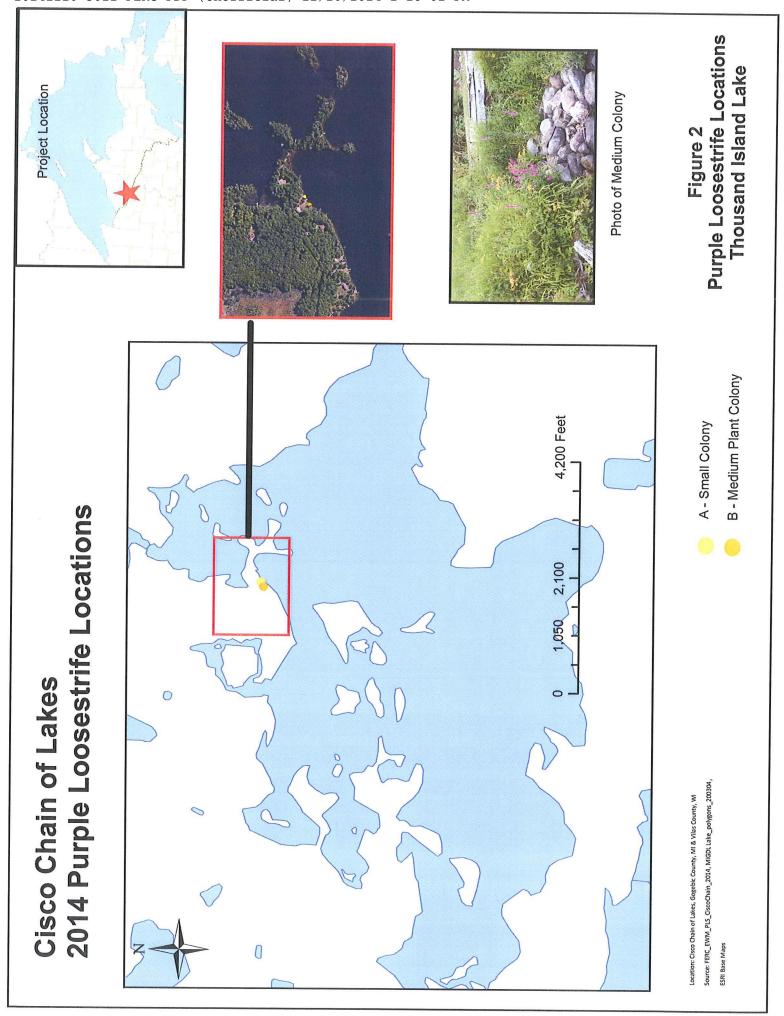
Source: FERC_EWM_PLS_CiscoChain_2014, MiGDL Lake_polygons_200304,
ESRI Base Maps

EWM Location



Figure 3
Cisco Chain
Eurasian Watermiloil
Survey Locations

2014 Purple Loosestrife Survey Results - Cisco Chain of Lakes					
Lake	Spatial Identification Colony Description Colony Size Latitude/Longitude (NAD 83				
Thousand Island	Small Colony ("A")	1-5 plants	46.23807	89.39837	
Thousand Island	Medium Colony ("B")	6-50 plants	46.23791	89.39869	



APPENDIX E

20141226-5022	FERC POF	(IInofficial)	12/26/2014	1:18:01 D

UPPCO LETTER TO THE BOND FALLS IMPLEMENTATION TEAM

Nuthals, James D

From:

Nuthals, James D

Sent:

Wednesday, October 29, 2014 12:14 PM

To:

Stephen.Gilbert@Wisconsin.gov; Fisher, Burr (Burr_Fisher@fws.gov); gmensch@kbic-nsn.gov; Kruger, Kyle (DNR) (KRUGERK@michigan.gov); 'James Schramm'; Norman Nass

Cc:

Laatsch, Cheryl - DNR

Subject: Attachments: 2014 UPPCO Bond Falls Hydroelectric Project - EWM and PL Survey Results Appendix C.pdf; Appendix D.pdf; Appendix B.pdf; 20141029BF EWMPL-MDNR.pdf; 20141029BF EWMPL-WDNR.pdf; 20141029BF EWMPL-WDNR.pdf; 20141029BF EWMPL-FWS.pdf; 20141029BF EWMPL-KBIC.pdf;

Appendix A.pdf

Importance:

High

Greetings,

Please reference UPPCO's 2014 Bond Falls Hydroelectric Project Eurasian watermilfoil and purple loosestrife survey results.

Please provide comments within thirty (30) days of receiving this information.

Sincerely,

James D Nuthals

Natural Resource Management | Environmental Services | Integrys Business Support, LLC

920-433-1460

920-309-0741 cell (please note cell phone number change)

920-433-1176 fax

jdnuthals@integrysgroup.com

www.integrysgroup.com

Providing support for Integrys Energy Groups, Michigan Gas Utilities, Minnesota Energy Resources, North Shore Gas, Peoples Gas, Wisconsin Public Service, and Wisconsin River Power.



Upper Peninsula Power Company 500 North Washington Street Ishpeming, MI 49849 www.UPPCO.com

FERC Project No. 1864

Mr. Kyle Kruger Michigan Department of Natural Resources Mio Field Office 191 S. Mt. Tom Rd Mio, MI 48647

Dear Mr. Kruger:

Bond Falls Hydroelectric Project

Article 411 Noxious Plants Monitoring Plan – 2014 Purple Loosestrife and Eurasian Water Milfoil Survey Results and Five Year Monitoring Report and Cisco Chain of Lakes Nuisance Plant Control Plan Results

As per the Federal Energy Regulatory Commission (FERC) Order Modifying and Approving Article 411 Nuisance Plant Control Plan issued February 24, 2005, the Upper Peninsula Power Company (UPPCO) is required to submit the results of the purple loosestrife (PL) and Eurasian water milfoil (EWM) monitoring surveys for the Bond Falls Hydroelectric Project (FERC Project No. 1864) to the Bond Falls Implementation Team (BFIT).

In addition, per the FERC Order Modifying and Approving the Five-Year Report for EWM at the Bond Falls (FERC Project No. 1864-01), Victoria Falls (FERC Project No. 1864-02) and the Bergland Development (FERC Project No. 1864), dated May 5, 2011, UPPCO is to submit the five- year EWM survey results. The monitoring report shall contain a comparison of all date and a recommendation for the frequency of future EWM monitoring.

Finally, per the Notice of Proposed Changes to the Bond Falls Hydroelectric Project Approved Nuisance Plant Control Plan provided to FERC on June 7, 2011, UPPCO is to annually provide the PL and EWM survey results for the Cisco Chain of Lakes (FERC Project No. 1864).

2014 Bond Falls Hydroelectric Projects - PL Survey Results

Surveys for PL were completed at the Bond Falls reservoir on August 14, 2014, and for the Bergland Development, beginning at the end of August through September 2014.

A survey for PL at the Victoria Falls reservoir was not completed until October 22, 2014.

UPPCO awarded the proposal to complete the PL survey at the Victoria Falls reservoir well within the optimal PL identification period. However, the awarded purchase order was sent via electronic mail and was later found not to be received by the consultant.

Even though the PL survey was completed outside of the optimal identification period, the consultant did indicate that emergent vegetation was still intact and visible. In

Mr. Kyle Kruger October 29, 2014 Page 2 of 3

addition, the consultant is a trained botanist and would be able to identify PL outside of the optimal identification period.

Corrections to the consultant purchase order process have been implemented to address the issue. UPPCO apologizes for any inconvenience.

No PL was identified at the Bond Falls and Victoria Falls reservoirs. PL has not been observed at these reservoirs since first completing PL surveys in 2005.

Purple was once again observed at the Bergland Development. As in the past, nine colonies were identified as being located within the project boundary. Only two the colonies were considered large (50+ plants).

In consultation with the BFIT, UPPCO provided funding to the Lake Gogebic Improvement Association (LGIA) to control purple loosestrife on the reservoir. From August through September, the LGIA completed a hand pull and/or burn control on five colonies. However control at the two largest colonies was hindered this year due to lack of available biological control (galerucella sp.) beetles at one colony and curtailed due to safety concerns; the presence of bald face hornets (Dolichovespula maculata), at the other large colony.

The purple loosestrife survey results for the Bergland Development are included in Appendix A.

2014 Bond Falls Hydroelectric Projects – EWM Survey Results

EWM surveys were completed at the Bergland Development from late August through September of 2014. No EWM was observed at any of the five transect locations.

A survey for EWM at Bond Falls and Victoria Falls reservoir was not completed until October 22, 2014.

UPPCO awarded the proposal to complete the EWM survey at the reservoirs well within the optimal EWM identification period. However, the awarded purchase order was sent via electronic mail and was later found not to be received by the consultant.

Even though the EWM survey was completed outside of the optimal identification period, the consultant did indicate that aquatic vegetation was plentiful and in overall fair health. In addition, the consultant is a trained botanist and would be able to identify EWM outside of the optimal identification period. No EWM was identified at the Bond Falls and Victoria Falls reservoirs.

Corrections to the consultant purchase order process have been implemented to address the issue. UPPCO apologizes for any inconvenience.

Mr. Kyle Kruger October 29, 2014 Page 3 of 3

EWM Five Year Report for Bond Falls, Victoria Falls and Bergland Development

In 2005 UPPCO selected EWM transect sample locations at Bond Falls and Victoria Falls reservoirs and the Bergland Development. A total of ten transect sample locations were established near boat landings and other areas of high public use. These sample locations were selected because they would most likely be the first location where EWM would be introduced into a water system.

Over the past five years, UPPCO has been completing surveys of the EWM transects at these same EWM transect locations. EWM has not been observed at any of the EWM transect sample locations.

Although EWM has not been observed at any of the transect sample locations nor within their respective reservoirs, UPPCO recommends maintaining the current EWM sampling methodology and completing the EWM surveys on an annual basis.

UPPCO believes that because EWM has not been observed to date, maintaining the current sampling methods will provide UPPCO with the best opportunity to quickly address and control and/or eliminate EWM if found on the Bond Falls and Victoria Falls reservoirs and Bergland Development.

EWM survey results from years 2010 through 2014 are included in Appendix C.

2014 Cisco Chain of Lakes - PL and EWM Survey Results

Purple loosestrife surveys on the Cisco Chain of Lakes were completed from August through September of 2014. Purple loosestrife was observed on Thousand Island Lake. The need for Purple loosestrife control will be discussed at the BFIT meeting this March/April.

18 EWM transect sample surveys and a meandering survey was also completed from August through September of 2014 on the Cisco Chain of Lakes. EWM was identified at one transect location on Thousand Island Lake. The meandering boat sample also identified EWM stands at two other locations on Thousand Island Lake, outside of the transect locations. The EWM transect and location figure and information sheet is included as Appendix D.

Updates on EWM control activities will be provided and discussed at the BFIT meeting this March/April.

Should you have any questions relative to this material, please do not hesitate to contact me at (920) 433-1460.

Sincerely,

Jamie Nuthals

Environmental Services

Natural Resource Management

UPPCO



Upper Peninsula Power Company 500 North Washington Street Ishpeming, MI 49849

FERC Project No. 1864

www.UPPCO.com

Mr. Jim Schramm Michigan Hydro Relicensing Coalition 1210 East Fifth Avenue Houghton, MI 49931

Dear Mr. Schramm:

Bond Falls Hydroelectric Project

<u>Article 411 Noxious Plants Monitoring Plan – 2014 Purple Loosestrife and Eurasian Water Milfoil Survey Results and Five Year Monitoring Report and Cisco Chain of Lakes Nuisance Plant Control Plan Results</u>

As per the Federal Energy Regulatory Commission (FERC) Order Modifying and Approving Article 411 Nuisance Plant Control Plan issued February 24, 2005, the Upper Peninsula Power Company (UPPCO) is required to submit the results of the purple loosestrife (PL) and Eurasian water milfoil (EWM) monitoring surveys for the Bond Falls Hydroelectric Project (FERC Project No. 1864) to the Bond Falls Implementation Team (BFIT).

In addition, per the FERC Order Modifying and Approving the Five-Year Report for EWM at the Bond Falls (FERC Project No. 1864-01), Victoria Falls (FERC Project No. 1864-02) and the Bergland Development (FERC Project No. 1864), dated May 5, 2011, UPPCO is to submit the five- year EWM survey results. The monitoring report shall contain a comparison of all date and a recommendation for the frequency of future EWM monitoring.

Finally, per the Notice of Proposed Changes to the Bond Falls Hydroelectric Project Approved Nuisance Plant Control Plan provided to FERC on June 7, 2011, UPPCO is to annually provide the PL and EWM survey results for the Cisco Chain of Lakes (FERC Project No. 1864).

2014 Bond Falls Hydroelectric Projects - PL Survey Results

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Mr. Jim Schramm October 29, 2014 Page 2 of 3

Corrections to the consultant purchase order process have been implemented to address the issue. UPPCO apologizes for any inconvenience.

No PL was identified at the Bond Falls and Victoria Falls reservoirs. PL has not been observed at these reservoirs since first completing PL surveys in 2005.

Purple was once again observed at the Bergland Development. As in the past, nine colonies were identified as being located within the project boundary. Only two the colonies were considered large (50+ plants).

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The purple loosestrife survey results for the Bergland Development are included in Appendix A.

2014 Bond Falls Hydroelectric Projects - EWM Survey Results

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Corrections to the consultant purchase order process have been implemented to address the issue. UPPCO apologizes for any inconvenience.

Mr. Jim Schramm October 29, 2014 Page 3 of 3

EWM Five Year Report for Bond Falls, Victoria Falls and Bergland Development

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Over the past five years, UPPCO has been completing surveys of the EWM transects at these same EWM transect locations. EWM has not been observed at any of the EWM transect sample locations.

Although EWM has not been observed at any of the transect sample locations nor within their respective reservoirs, UPPCO recommends maintaining the current EWM sampling methodology and completing the EWM surveys on an annual basis.

UPPCO believes that because EWM has not been observed to date, maintaining the current sampling methods will provide UPPCO with the best opportunity to quickly address and control and/or eliminate EWM if found on the Bond Falls and Victoria Falls reservoirs and Bergland Development.

EWM survey results from years 2010 through 2014 are included in Appendix C.

2014 Cisco Chain of Lakes - PL and EWM Survey Results

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Sincerely,

Jamie Nuthals

Environmental Services

Natural Resource Management

UPPCO



Upper Peninsula Power Company 500 North Washington Street Ishpeming, MI 49849 www.UPPCO.com

FERC Project No. 1864

Mr. Norman Nass United States Department of Agriculture – Forest Service Old US Hwy 2 East Watersmeet, MI 49969

Dear Mr. Nass:

Bond Falls Hydroelectric Project
Article 411 Noxious Plants Monitoring Plan – 2014 Purple Loosestrife and Eurasian Water
Milfoil Survey Results and Five Year Monitoring Report and Cisco Chain of Lakes
Nuisance Plant Control Plan Results

As per the Federal Energy Regulatory Commission (FERC) Order Modifying and Approving Article 411 Nuisance Plant Control Plan issued February 24, 2005, the Upper Peninsula Power Company (UPPCO) is required to submit the results of the purple loosestrife (PL) and Eurasian water milfoil (EWM) monitoring surveys for the Bond Falls Hydroelectric Project (FERC Project No. 1864) to the Bond Falls Implementation Team (BFIT).

In addition, per the FERC Order Modifying and Approving the Five-Year Report for EWM at the Bond Falls (FERC Project No. 1864-01), Victoria Falls (FERC Project No. 1864-02) and the Bergland Development (FERC Project No. 1864), dated May 5, 2011, UPPCO is to submit the five- year EWM survey results. The monitoring report shall contain a comparison of all date and a recommendation for the frequency of future EWM monitoring.

Finally, per the Notice of Proposed Changes to the Bond Falls Hydroelectric Project Approved Nuisance Plant Control Plan provided to FERC on June 7, 2011, UPPCO is to annually provide the PL and EWM survey results for the Cisco Chain of Lakes (FERC Project No. 1864).

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Mr. Norm Nass October 29, 2014 Page 2 of 3

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Mr. Norm Nass October 29, 2014 Page 3 of 3

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Environmental Services

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Upper Peninsula Power Company 500 North Washington Street

Ishpeming, MI 49849 www.UPPCO.com

FERC Project No. 1864

Mr. Steve Gilbert Wisconsin Department of Natural Resources 8770 Highway J Woodruff, WI 54568

Dear Mr. Gilbert:

Bond Falls Hydroelectric Project
Article 411 Noxious Plants Monitoring Plan – 2014 Purple Loosestrife and Eurasian Water
Milfoil Survey Results and Five Year Monitoring Report and Cisco Chain of Lakes

Nuisance Plant Control Plan Results

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Mr. Steve Gilbert October 29, 2014 Page 2 of 3

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Over the past five years, UPPCO has been completing surveys of the EWM transects at these same EWM transect locations. EWM has not been observed at any of the EWM transect sample locations.

Although EWM has not been observed at any of the transect sample locations nor within their respective reservoirs, UPPCO recommends maintaining the current EWM sampling methodology and completing the EWM surveys on an annual basis.

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www.UPPCO.com

FERC Project No. 1864

Mr. Burr Fisher U.S. Fish and Wildlife Service East Lansing Field Office 2651 Coolidge Road East Lansing, MI 48823

Dear Mr. Fisher:

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Article 411 Noxious Plants Monitoring Plan – 2014 Purple Loosestrife and Eurasian Water
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Mr. Burr Fischer October 29, 2014 Page 2 of 3

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Ishpeming, MI 49849 www.UPPCO.com

FERC Project No. 1864

Mr. Gene Mensch KBIC – Natural Resources Department HCRO1 Box 120 L'Anse, MI 49946

Dear Mr. Mensch:

Bond Falls Hydroelectric Project

Article 411 Noxious Plants Monitoring Plan – 2014 Purple Loosestrife and Eurasian Water Milfoil Survey Results and Five Year Monitoring Report and Cisco Chain of Lakes Nuisance Plant Control Plan Results

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Mr. Gene Mensch October 29, 2014 Page 2 of 3

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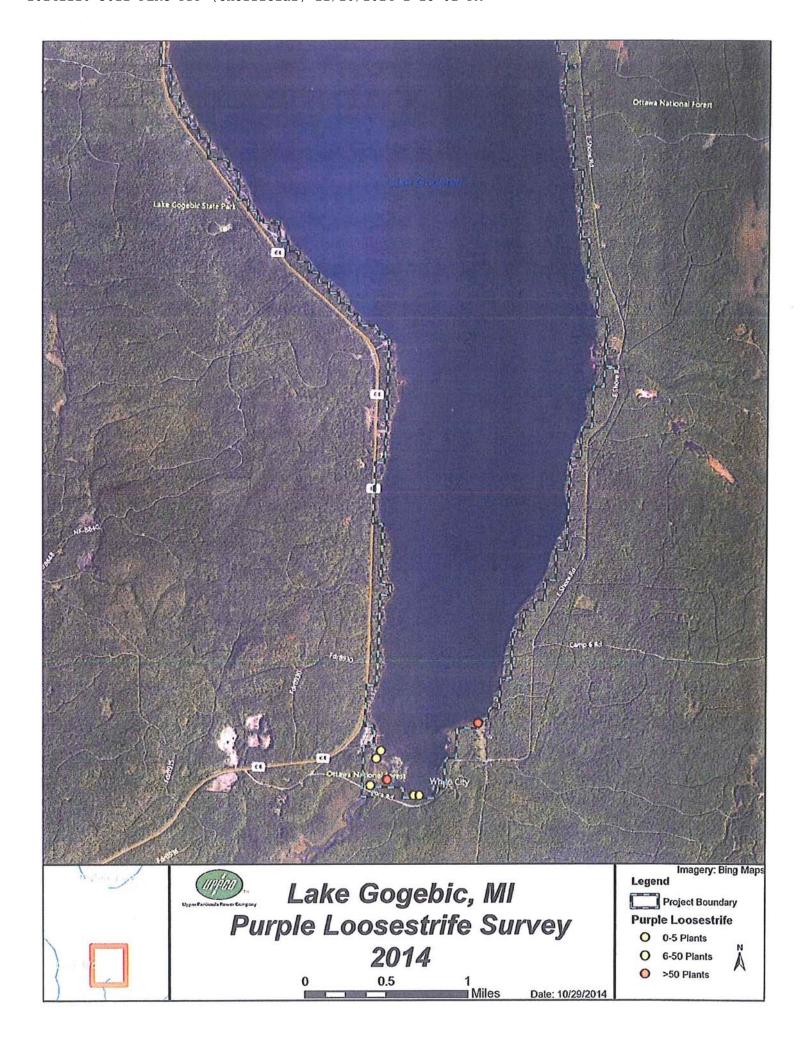
Jamie Nuthals

Environmental Services

Natural Resource Management

UPPCO

APPENDIX A



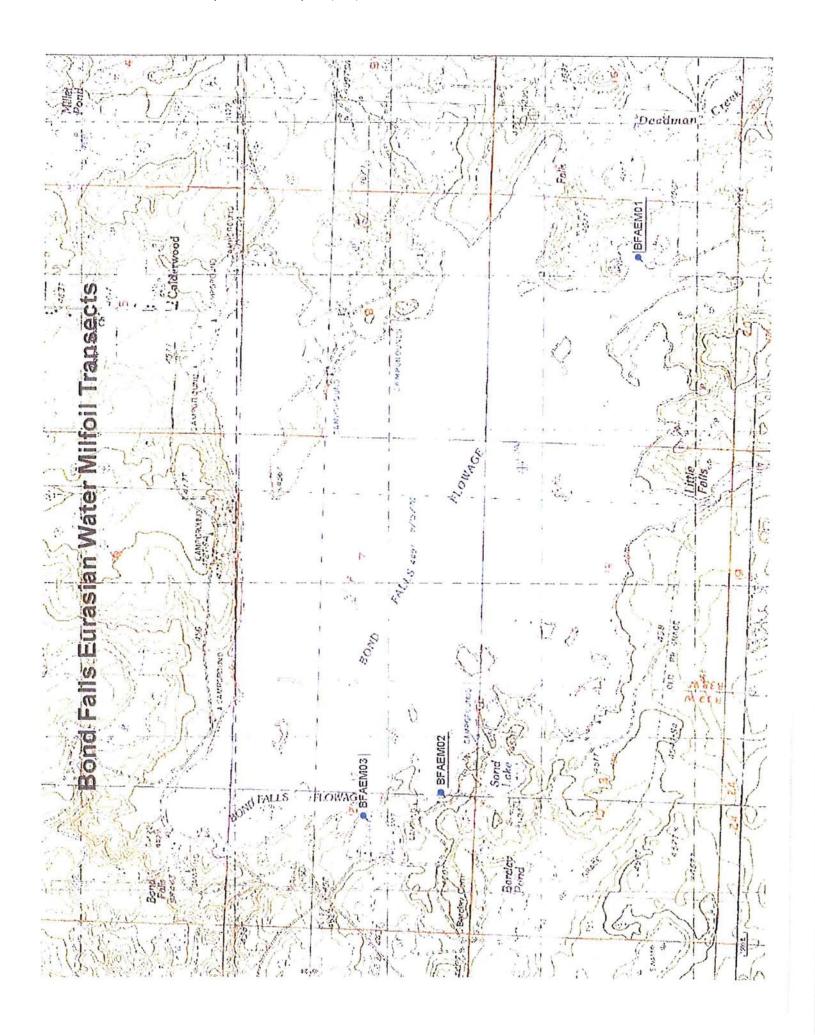
Purple Loostrife Data Collection Sheet 28-Oct-14 Lake Gogebic-Ontonagon/Gogebic Counties-Michigan

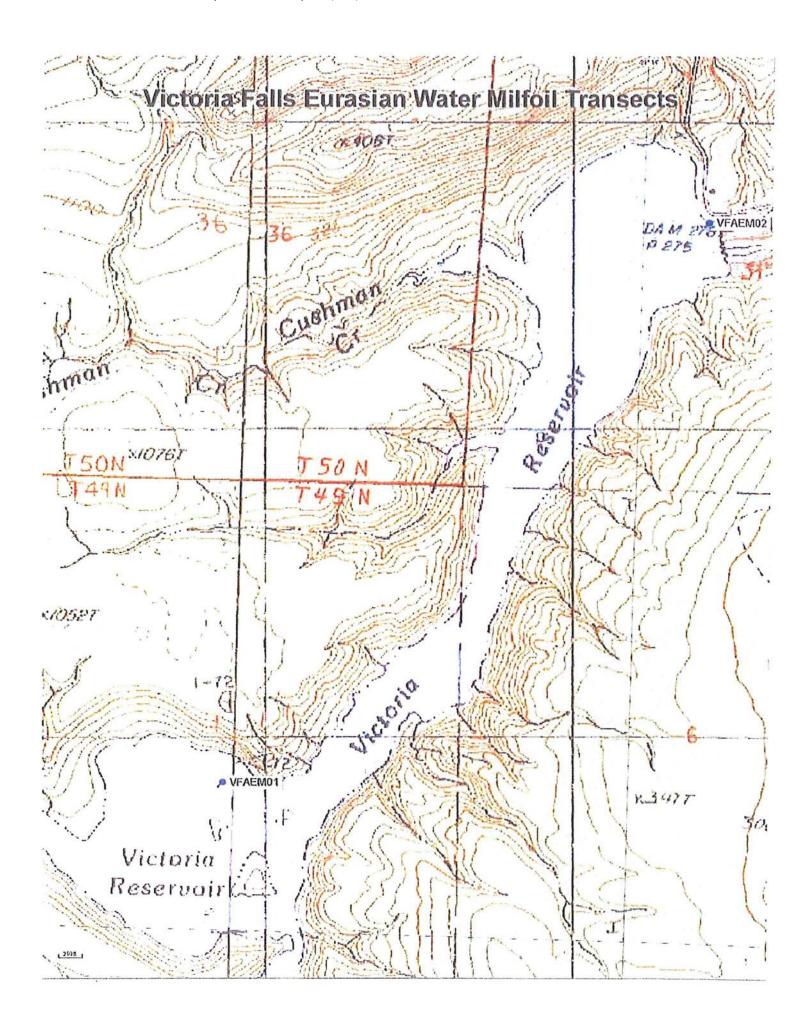
Plant ID Number	Latitude	Longitude	Abundance Scale	Control Method
1023	46.41001	-89.5545	none found	no action neede
2766	46.40611	-89.55087	small patch	pulled and burne
2767	46.40613	-89.54654	small patch	pulled and burne
2768	46.41153	-89.5424	very large expanse	no Garucella beet
				available, no action
4236	46.40745	-89.55001	large patch	cut, pulled and bur
4237	46.4093	-89,55146	medium patch	cut, pulled and bur
4238	46.4069	-89,55214	small patch	pulled and burne
4065	46.41272	-89.53853	none found	no action neede
4066	46.45917	-89.52847	medium patch	attempted action rep
				by hornet infestat

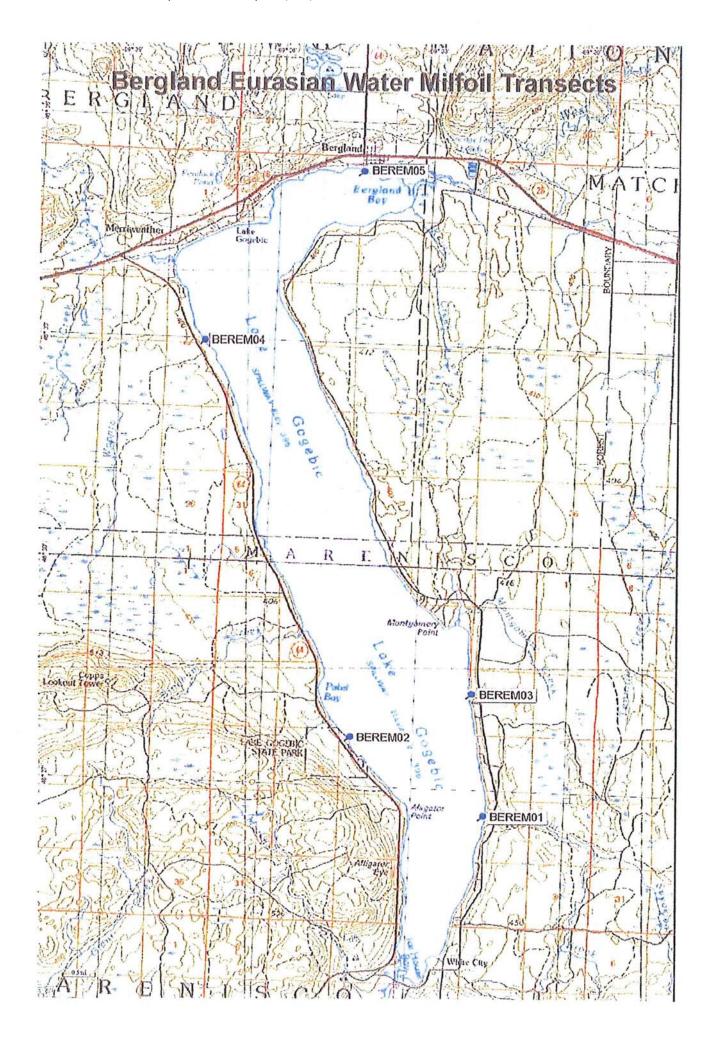
0

Plant Abundance Scale: Small 1-5 plants, Medium 6-50 plant , Large 50 + plants

APPENDIX B







Page 2

Nr. James Notical) October 28, 2016 Project fee, 0141704.00

Results:

The following tables summarize the findings of the field surveys:

Table 1
BOND FALLS HYDROELECTRIC PROJECT EURASIAN WATER MILFOIL SURVEY
OCTOBER 22, 2014

Transect#	0-0.5m	0.5-1.5m	1.5-30m	>3.0m	Origin	Notes
1A	0	0	NA	NA	N 46 22,917	Potomogeton present
1B	0	0	NA	NA	W 89 04.757	
1C	0	0	0	NA		
2A	0	0	NA	NA	N 46 23.553	Elodea, Potomogeton, Ceratophyllum present
2B	0	0	NA	NA	W 89 07.503	
2C	0	0	NA	NA		
3A	0	0	NA	NA	N 46 23.827	Potomogeton sparsely present
3B	0	0	NA	NA	W 89 07.631	
3C	0	0	0	NA		

Table 2
VICTORIA FALLS HYDROELECTRIC PROJECT EURASIAN WATER MILFOIL SURVEY
OCTOBER 22, 2014

Transect #	0-0.5m	0.5-1.5m	1.5-30m	>3.0m	Origin	Notes
1A	0	0	NA	NA	N 46 40.259	Potomogeton present
1B	0	0	0	NA	W 89 15.038	
1C	0	0	0	NA		
2A	0	0	NA	NA	N 46 41.266	Potomogeton present
2B	0	0	NA	NA	W 89 13.837	
2C	0	0	NA	NA		



	Et	urasian Milfoil Su	rveys	
		Bergland Develop		
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	N/A	N/A
1B	0	0	N/A	N/A
1C	0	0	N/A	N/A
2A	0	0	N/A	N/A
2B	0	0	0	N/A
2C	0	0	0	N/A
3A	0	0	N/A	N/A
3B	0	0	0	N/A
3C	0	0	0	0
4A	0	N/A	N/A	N/A
4B	0	0	N/A	N/A
4C	0	0	0	0
5A	0	N/A	N/A	N/A
5B	0	0	0	0
5C	0	0	0	0

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species, 4-Dominant Species Present, 5-Total Infestation

APPENDIX C

Appendix A: Tables

Bond Falls

Date:	7/23/2010	Time:	6pm-8pm				
Lake:	Bond Falls	Surveyors:	Todd Macc	o, Ed Shaw			
Weather:	Clear	Condition:	Water Leve	l Down, Res	ervoir Dra	ined	
Eurasian N	lilfoil Survey	1					
Transect#	Pics	05M	.5-1.5M	1.5-3.0M	>3.0M	Origin	Comments
1A	1-12	0	0	0	0	N46 23.801	No Purple Loosestrife, No Eurasian Milfoil
1B		0	0	0	0	W89 7.369	
1C		0	0	0	0		Date 14
2A	13-37	0	0	0	0	N46 24.170	No Purple Loosestrife, No Eurasian Milfoil
2B	32	0	0	0	0		Native Milfoil, Thick Mat
2C		0	0	0	0		
3A	38-44	0	0	0	0	N46 24.308	No Purple Loosestrife, No Eurasian Milfoil
3B		0	0	0	0		Native Milfoil
3C		0	0	0	0		
4A	45-47	0	0	0	0	N46 23.737	No Purple Loosestrife, No Eurasian Milfoil
4B		0	0	0	0		Boat Launch
1C		0	0	0	0		
5A		0	0	0	0	N46 24.078	No Purple Loosestrife, No Eurasian Milfoil
5B		0	0	0	0	W89 6.169	
SC SC		0	0	0	0		
)-Absent, 1	-Presence le	ss than half,	2-Equal co	mpared to o	ther speci	es,	
-Dominant	, 4-Total inf	estation					
Note: All Tr	ansects are	40 feet in le	ngth and pr	oceed away	from sho	re in a direction	on perpendicular to the shoreline

Victoria Falls

Date:	7/24/2010	Time:	6pm-8pr	n			
Lake:	Victoria Falls	Surveyors:	Todd Ma	cco, Ed Sh	aw		
Weather:	Clear	Lake Condi	Good				
Eurasian N	lilfoil Survey					20.22	
Transect#	Pics	05M	.5-1.5M	1.5-3.0M	>3.0M	Origin	Comments
1A	207-213	0	0	0	0	N46 41.269	No Purple Loosestrife, No Eurasian Milfoil
1B	214-221	0	0	0	0	W89 13.827	
1C		0	0	0	0		
2A	236-237	0	0	0	0	N46 40.257	No Purple Loosestrife, No Eurasian Milfoil
2B	238-239	0	0	0	0	W89 15.021	
2C		0	0	0	0		
0-Absent, 1	-Presence less	than half, 2-	Equal cor	npared to	other sp	ecies,	
3-Dominan	t, 4-Total infest	tation					
Note: All T	ransects are 40	feet in leng	th and pr	oceed awa	y from s	hore in a dire	ction perpendicular to the shoreline

Lake Gogebic

Date:	7/24/2010	Time:	8am-4pm				
Lake:	Gogebic	Surveyors:	Todd Macco	Ed Shaw			
Weather:	Rain	Condition:	Good	2			
Eurasian N	ilfoil Survey						
Transect#	Pics	05M	.5-1.5M	1.5-3.0M	>3.0M	Origin	Comments
1A	138-149	0	0	0	0	N46 27.650	No Purple Loosestrife, No Eurasian Milfoil
1B		0	0	0	0	W89 34.250	
1C		0	0	0	0		
2A	155-158	0	0	0	0	N46 32.957	No Purple Loosestrife, No Eurasian Milfoil
2B		0	0	0	0	W89 37.388	
2C		0	0	0	0		
3A	167-175	0	0	0	0	N46 35.297	No Purple Loosestrife, No Eurasian Milfoil
3B		0	0	0	0	W89 34.428	
3C		0	0	0	0		
4A	178-185	0	0	0	0	N46 28.288	No Purple Loosestrife, No Eurasian Milfoll,
4B		0	0	0	0	W89 31.877	
4C		0	0	0	0		
5A	201-206	0	0	0	0	N46 26.672	No Purple Loosestrife, No Eurasian Milfoil,
5B		0	0	0	0	W89 31.547	
5C		0	0	0	0		
0-Absent, 1	-Presence le	ss than half,	2-Equal comp	ared to oth	ner species	5,	
3-Dominan	t, 4-Total inf	estation					
Note: All T	ransects are	40 feet in le	ngth and proc	eed away f	rom shore	in a direction	perpendicular to the shoreline

Purple Loo	sestrife Surv	еу						
Site	Pics	Lat	Long	Amount	Comments			
1	48-70	N46 24.555	W89 33.089	В	No Eurasian	Milfoil, 20 p	urple loosestrife plants, no signs of beetles	
2	71-99	N46 24.257	W89 33.297	0	No Purple L	oosestrife, N	o Eurasian Milfoil,	
3	100-106	N46 24.440	W89 32.988	С	No Eurasian	Milfoil, 50+	purple loosestrife plants, no signs of beetles,	
					Peat Bog Di	fficult Access		
4	110-121	N46 24.664	W89 32.508	С	No Eurasian	Milfoil, 50+	purple loosestrife plants, no signs of beetles	
					Sites 4 and 5 of 2009 found to occur in same relative location			
5	122-125	N46 24.744	W89 32.382	Α	No Eurasian Milfoil, 2 purple loosestrife plants, no signs of beetles			
					New Site no	t listed in 20	09 Survey	
6	132-135	N46 24.763	W89 32.314	Α	No Eurasian	Milfoil, 1 pu	rple loosestrife plants, no signs of beetles	
7	136-137	N46 24.697	W89 32.549	Α	No Eurasian	Milfoil, 2 pu	rple loosestrife plants, no signs of beetles	
8	197-200	N46 27.550	W89 31.707	В	No Eurasian	Milfoil, 20 p	urple loosestrife plants, no signs of beetles	
A-Small Co	lonies of 1-5	Plants						
B-Medium	Colonies of	6-50 Plants						
C-Dense Co	olonies of >5	0 Plants						
0-Absent								

Eur	asian Milfo	oil Survey - A	ugust 1, 201	1
Bon	d Falls, On	tonagon Cou	inty, Michiga	n
Transect #	0-0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	NA	NA
1B	0	0	NA	NA
1C	0	0	NA	NA
2A	0	0	NA	NA
2B	0	0	NA	NA
2C	0	0	NA .	0
3A	0	0	NA	NA
3B	0	0	NA	NA
3C	0	0	NA	0

	Abundance Scale
0	Absent
1	Present
2	Abundance Less than Half
3	Equal Presence Compared to Other Species
1	Dominant Species
5	Total Infestation

Eur	asian Milfo	oll Survey - A	ugust 1, 201	1
Victo	ria Falls, O	ntonagon Co	unty, Michig	gan
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	NA	NA
1B	0	0	0	NA
1C	0	0	0	NA
2A	0	0	NA	ŇA
2B	0	0	NA	NA
2C	0	0	0	NA

	Abundance Scale
0	Absent
1	Present
2	Abundance Less than Half
3	Equal Presence Compared to Other Species
4	Dominant Species
5	Total Infestation

Eur	rasian Milf	oil Survey - A	ugust 2, 201	1
Lak	e Gogebic,	Gogebic Cou	inty, Michiga	n
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	NA	NA
1B	0	0	NA	NA
1C	0	0	NA	NA
2A	0	0	NA	NA
2B	0	0	NA	NA
2C	0	0	0	NA
3A	0	0	NA	NA
3B ·	0	0	0	NA
3C	0	0	0	NA
4A	0	0	NA	NA
4B	0	0	NA	NA
4C	0	0	NA	NA
5A ,	0	0	NA	NA
SB .	0	0	NA	NA
SC	0	0		NA

	Abundance Scale
0	Absent
1	Present
2	Abundance Less than Half
4	Dominant Species
	Total Infestation

Eura	sian Milfo	il Survey - Au	igust 27, 20:	12
			inty, Michiga	
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	NA	NA
1B	0	0	NA	NA
1C	0	0	NA	NA
2A	0	0	NA	NA
2B	0	0	NA	NA
2C	0	0	NA	0
3A	0	0	NA	NA
3B	0	0	NA	NA
3C	0	0	NA	0

9	Abundance Scale
0	Absent
1	Presence Less than Half
2	Equal Presence Compared to Other Species
	Dominant Species
	Total Infestation

Eura	slan Milfo	I Survey - Au	igust 27, 201	12
		ntonagon Co		
Transect #	0-0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	>3.0 M
1A	0	0	ŅĄ	NA
1B	0	0	0	NA
1C	0	0	0	NA
2A	0	0	NA	NA
2B 2C	0	0	NA	NA
2C	0	0	0	NA

	Abundance Scale
0	Absent
1	Presence Less than Half
2	Equal Presence Compared to Other Species
3	Dominant Species
4	Total Infestation

Eura	sian Milfo	il Survey - Au	igust 28, 201	2
Lake	Gogebic,	Gogebic Cou	inty, Michiga	ın
Transect #	0-0.5 M	0.5 - 1.5 M	1.5 - 3,0 M	> 3.0 M
1A	0	0	NA	NA
1B	0	0	NA	NA
1C	0	0	NA	NA
2A	0	0	NA	NA
2B	0	0	NA	NA
2C	0	0	0	NA
3A	0	0	NA	NA
3B	0	0	0	NA
3C	0	0	0	NA
4A	0	0	NA	NA
4B	0	0	NA	NA
4C	0	0	NA	NA
5A	0	0	NA	NA
5B	0	0 .	NA	NA
5C	0	0	NA	NA

-171111	Abundance Scale
0	Absent
1	Presence Less than Half
2	Equal Presence Compared to Other Species
3	Dominant Species
4	Total Infestation

	E	urasian Milfoil Su	rveys	
	Bond	Falls Hydroelectr	ric Project	
		8-Aug-13		
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	.0	N/A	N/A
1B	0	0	N/A	N/A
1C	0	0	N/A	N/A
2A	0	0	N/A	N/A
2B	0	0	N/A	N/A
2C	0	0	N/A	N/A
3A	0	0	N/A	N/A
3B	0	0	0	N/A
3C	0	0	0	0

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species, 4-Dominant Species Present, 5-Total Infestation

Lake Gogebic Eurasian Watermilfoil Survey - August 8 and 9, 2013

* TNA DE TENTO

White Water Associates Field Staff: Caitlin Clarke and Angie Stine Gogebic and Ontonagon Counties, Michigan



Transect#	0-0.5 m	0.5-1.5 m	1.5-3.0 m	>3.0 m	Origin	Notes
1A	0	0	NA	NA	N 46 26.642	No aquatic plants
1B	0	0	NA	NA	W 89 31.587	observed. A few hundred feet south of Trout Brook.
1C	0	0	NA	NA	(46.44403, -89.52645)	Substrate of rock and cobble.
2A	0	0	NA	NA	N 46 27.653	No aquatic plants
2B	0	0	0	NA	W 89 34.259	observed. In front of
2C	0	0	0	0	(46.46088, -89.57098)	campsites. Substrate of rock and cobble.
3A	0	0	NA	NA	N 46 28.294	No aquatic plants
3B	0	0	0	NA	W 89 31.883	observed. South of boat landing a few hundred fee in small cove. Substrate rock and cobble.
3C	0	0	0	0	46.47157, -89.53138)	
4A	0	NA	NA	NA	N 46 32.964	Valisneria Americana
4B	0	0	NA	NA	W 89 37.401	present. Thirty feet north of park with sand beach
- 4C	0	0	0	0	(46.54940, -89.62335)	and boat launch. Substrate of sand and rock.
5A	0	NA	NA	NA		Valisneria Americana and
5B	0	0	0	0	N 46 35.338 W 89 34.391	Potamogeton richardsonii present. Fifty feet west of
5C	0	0	0	0	(46.58897, -89.57318)	Bergland boat launch on east side of large concrete pier. Substrate of sand and rock

NA: Not Applicable

Abundance Scale: 0-EWM absent, 1-EWM present, 2—EWM presence less than half, 3-EWM equal presence compared to other species, 4-EWM dominant species present, 5-EWM total infestation.

Note: Transects are 40 ft long and proceed away from shore in a direction perpendicular to the shoreline

Page 2

Mr. Jamie Nuthals October 28, 2014 Project No. D141704.00

Results:

The following tables summarize the findings of the field surveys:

Table 1
BOND FALLS HYDROELECTRIC PROJECT EURASIAN WATER MILFOIL SURVEY
OCTOBER 22, 2014

Transect #	0-0.5m	0.5-1.5m	1.5-30m	>3.0m	Origin	Notes
1A	0	0	NA	NA	N 46 22,917	Potomogeton present
1B	0	0	NA	NA	W 89 04.757	
1C	0	0	0	NA		
2A	0	0	NA	NA	N 46 23.553	Elodea, Potomogeton, Ceratophyllum present
2B	0	0	NA	NA	W 89 07.503	
2C	0	0	NA	NA		
3A	0	0	NA	NÁ	N 46 23.827	Potomogeton sparsely present
3B	0	0	NA	NA	W 89 07.631	
3C	0	0	0	NA		

Table 2
VICTORIA FALLS HYDROELECTRIC PROJECT EURASIAN WATER MILFOIL SURVEY
OCTOBER 22, 2014

Transect #	0-0.5m	0.5-1.5m	1.5-30m	>3.0m	Origin	Notes
1A	0	0	NA	NA	N 46 40.259	Potomogeton present
1B	0	. 0	0	NA	W 89 15.038	
1C	0	0	0	NA		
2A	0	0	. NA	NA	N 46 41.266	Potomogeton present
2B	0	0	NA	NA	W 89 13.837	
2C	0	0	NA	NA		



	E	urasian Milfoil Su	rveys	
	Е	Bergland Develop	ment	
Transect #	0 - 0.5 M	0 - 0.5 M 0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M
1A	0	0	N/A	N/A
1B	0	0	N/A	N/A
1C	0	0	N/A	N/A
2A .	0	0	N/A	N/A
2B	0	0	0	N/A
2C	0	0	0	N/A
3A	0	0	N/A	N/A
3B	0	0	0	N/A
3C	0	0	0	0
4A	0	N/A	N/A	N/A
4B	0	0	N/A	N/A
4C	0	0	0	0
5A	0	N/A	N/A	N/A
5B	0	0	0	0
5C	0	0	0	0

Abundance Scale: 0-Absent, 1-Present, 2-Presence Less Than Half, 3-Equal Presence Compared to Other Species, 4-Dominant Species Present, 5-Total Infestation

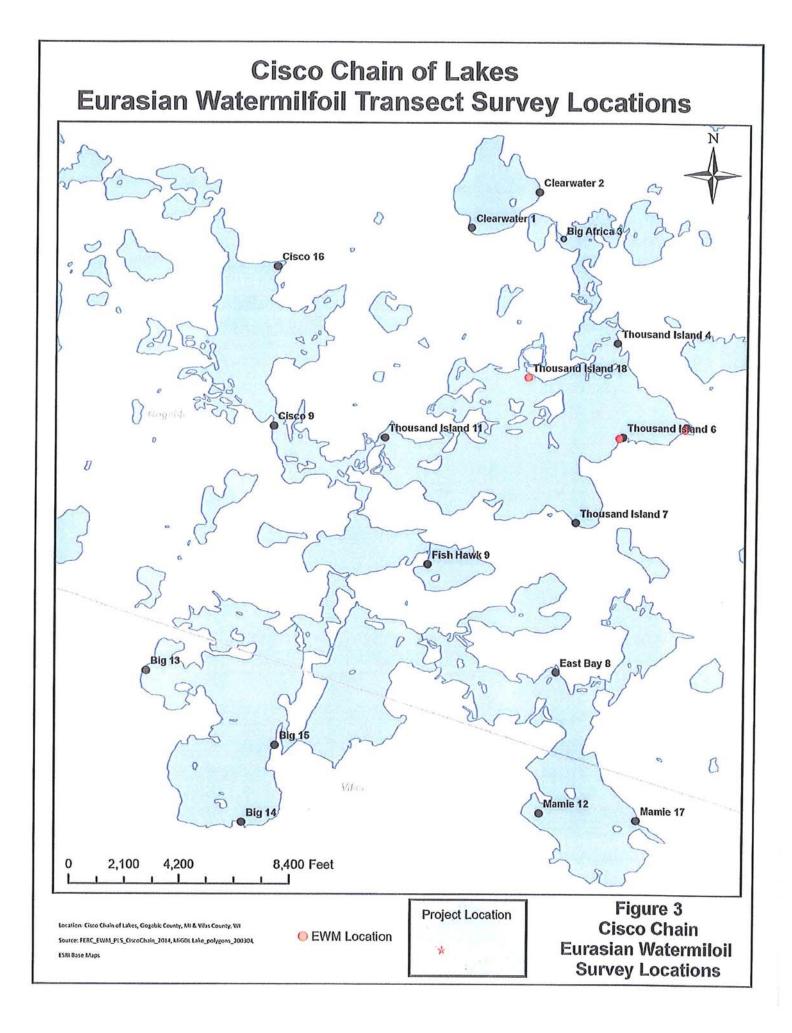
APPENDIX D

2014 C	isco Chain EWM Transe	ect Survey	Results	
Lake Name	Depth Quarter (m)		Transect I	D
		1A	1B	1C
Clearwater	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		2A	2B	2C
Clearwater	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		3A	3B	3C
Big Africa	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		4A	4B	4C
Thousand Island	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		5A	5B	5C
Thousand Island	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		6A	6B	6C
Thousand Island	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		7A	7B	7C
Thousand Island	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0

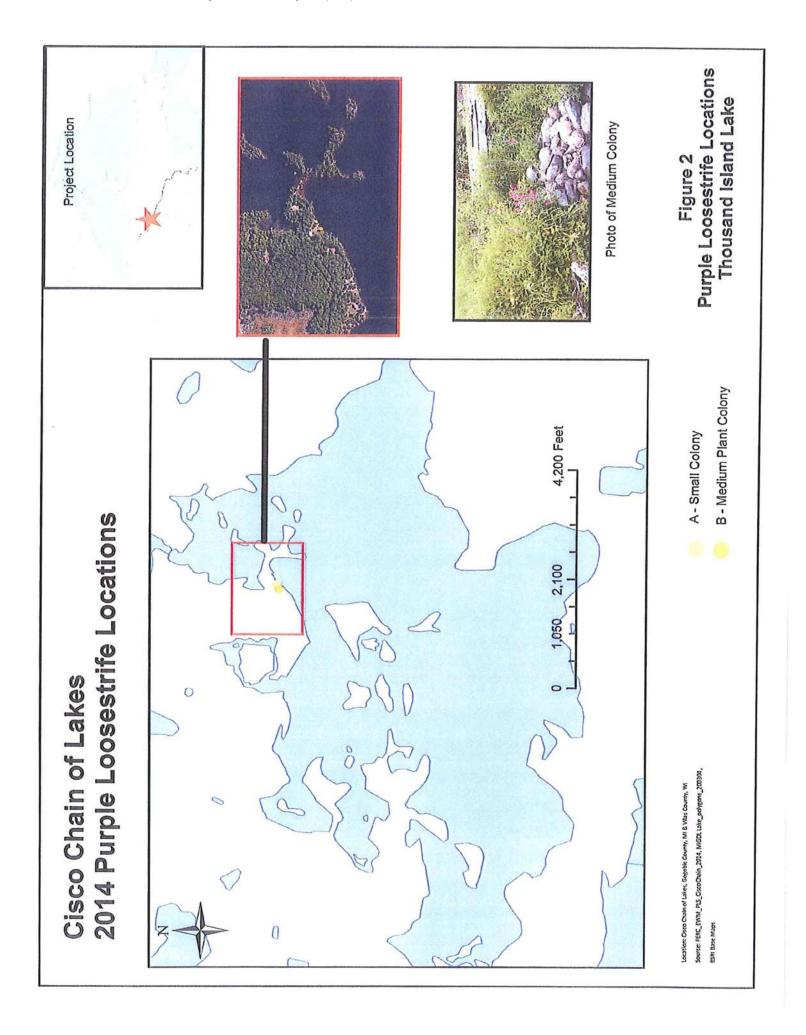
2014 C	isco Chain EWM Transe	ect Survey	Results			
Lake Name	Depth Quarter (m)	•	Transect II)		
East Bay	0-0.5	0	0	0		
	0.5-1.5	0	0	0		
	1.5-3.0	0	0	0		
	>3.0	depth	depth did not exceed 3m			
		9A	9B	9C		
Fishhawk	0-0.5	0	0	0		
	0.5-1.5	0	0	0		
	1.5-3.0	0	0	0		
	>3.0	0	0	0		
			The second second			
		10A	10B	10C		
Cisco	0-0.5	0	0	0		
	0.5-1.5	0	0	0		
	1.5-3.0	0	0	0		
	>3.0	depth	did not exc	eed 3m		
		11A	11B	11C		
Thousand Island	0-0.5	0	0	0		
	0.5-1.5	0	0	0		
	1.5-3.0	0	0	0		
	>3.0	depth	did not exc	eed 3m		
		12A	12B	12C		
Mamie	0-0.5	0	0	0		
	0.5-1.5	0	0	0		
	1.5-3.0	0	0	0		
	>3.0	0	0	0		
		13A	13B	13C		
Big	0-0.5	0	0	0		
	0.5-1.5	0	0	0		
	1.5-3.0	0	0	0		
	>3.0	0	0	0		
		14A	14B	14C		
Big	0-0.5	0	0	0		
	0.5-1.5	0	0	0		
	1.5-3.0	0	0	0		
	>3.0	0	0	0		

2014 C	isco Chain EWM Transe	ct Survey	Results	
Lake Name	Depth Quarter (m)		Transect II	D
		15A	15B	15C
Big	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
The second secon	>3.0	0	0	0
		16A	16B	16C
Cisco	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		17A	17B	17C
Mamie	0-0.5	0	0	0
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0
		18A	18B	18C
Thousand Island	0-0.5	0	0	1
	0.5-1.5	0	0	0
	1.5-3.0	0	0	0
	>3.0	0	0	0

Key			
Ranking	Description		
0	EWM absent		
1	EWM present on less than half		
2	EWM equal compared to other species		
3	EWM dominant		
4	EWM total infestation		



2014 Purple Loosestrife Survey Results - Cisco Chain of Lakes						
Lake	Colony Description	Colony Size	Spatial Identification Latitude/Longitude (NAD 83)			
Thousand Island	Small Colony ("A")	1-5 plants	46.23807	89.39837		
Thousand Island	Medium Colony ("B")	6-50 plants	46.23791	89.39869		



US FISH AND WILDLIFE SERIVE COMMENTS

Nuthals, James D

www.integrysgroup.com

From: Sent: To: Subject:	Fisher, Burr <burr_fisher@fws.gov> Tuesday, November 04, 2014 10:19 AM Nuthals, James D; Jack Dingledine Re: 2014 UPPCO Bond Falls Hydroelectric Project - EWM and PL Survey Results</burr_fisher@fws.gov>
Thanks Jim. It doesn't lo additional comments. Burr	ok like the two invasive plants are a problem with these surveys results. We have no
On Wed, Oct 29, 2014 at	1:13 PM, Nuthals, James D < <u>JDNuthals@integrysgroup.com</u> > wrote:
Greetings,	
Please reference UPPCO survey results.	's 2014 Bond Falls Hydroelectric Project Eurasian watermilfoil and purple loosestrife
Please provide comments	s within thirty (30) days of receiving this information.
Sincerely,	
James D Nuthals	
Natural Resource Mana	ngement Environmental Services Integrys Business Support, LLC
920-433-1460	
920-309-0741 cell (pleas	se note cell phone number change)
920-433-1176 fax	
jdnuthals@integrysgroup	o.com

Providing support for Integrys Energy Groups, Michigan Gas Utilities, Minnesota Energy Resources, North Shore Gas, Peoples Gas, Wisconsin Public Service, and Wisconsin River Power.

UPPCO RESPONSE

US Fish & Wildlife Service Comment

It doesn't look like the two invasive plants are a problem with these surveys results.

UPPCO Response

Comment Noted.

US Fish & Wildlife Service Comment

We have no additional comments.

UPPCO Response

Comment Noted.

Document Content(s)	
20141226BFFERCLetter.PDF1-4	
Appendix A.PDF5-7	
Appendix B.PDF8-1	3
Appendix C.PDF	27
Appendix D.PDF	34
Appendix E.PDF35-	90

20141226-5022 FERC PDF (Unofficial) 12/26/2014 1:18:01 PM