

ORIGINAL



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

December 27, 2007

2007 DEC 28 P 2:39

FERC Project No. 1979-039

Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
Mail Code: DTCA, HL 21.3
888 First Street, N.E.
Washington, DC 20426

Dear Secretary Bose:

Invasive Species Monitoring for the Alexander Hydroelectric Project

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 (WPSC) is submitting results of the purple loosestrife, Eurasian watermilfoil and zebra mussel surveys.

The purple loosestrife survey was conducted on July 25, 2007. Purple loosestrife was identified within the Alexander Hydroelectric Project. A total of 80 colonies of purple loosestrife were identified at the project, an increase of 8 colonies from the 2006 survey. However, of the 80 colonies identified, only 23 colonies were identified with a population greater than 5 plants, that is a decrease of 18 colonies from the 2006 survey. The information indicates that some colonies have decreased in population. WPSC believes this could be attributed to the spraying of colonies, which includes colonies greater than 1 to 5 plants.

WPSC will continue to monitor the success of the spraying of purple loosestrife colonies identified during the annual surveys. The results of the 2007 purple loosestrife survey and 2006 to 2007 purple loosestrife comparison results are included in Appendix A.

The Eurasian watermilfoil survey was conducted on July 25, 2007. Eurasian watermilfoil samples were collected at three sampling locations within the Alexander Hydroelectric Project. No Eurasian watermilfoil was identified during the survey.

The sampling locations are located near public boat landings. GPS coordinates were collected for each sampling location. The boat landing near transect #3 was closed this year from recreational activities. A new boat landing has been relocated 475 feet to the north of the existing boat landing. In order to comply with the intent of the Eurasian watermilfoil survey protocol outlined in the Invasive Species Monitoring Plan, WPSC is requesting to move transect #3 from the closed boat landing location to the new boat

Ms. Kimberly D. Bose, Secretary
December 27, 2007
Page 2 of 2

landing location for the 2008 surveying activities and thereafter. A summary of the results has been included in Appendix B.

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 2006 inspections. A summary of the results has been included in Appendix C.

Documentation of submittal of these results to the resource agencies can be found in Appendix D.

Should you have any questions or require additional information, please do not hesitate to contact James Nuthals at (920) 433-1460

Sincerely,



Terry P. Jensky (s.c.)
Vice President - Energy Supply Operations
Wisconsin Public Service Corporation
Telephone: (715) 355-2047

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2
Mr. Bruce Crocker, WPSC - D2
Mr. Gil Snyder, WPSC - D2

Mr. William Bloczynski, WPSC - MERH
Mr. Howard Giesler, WPSC - PUL
Ms. Carlisa Linton, FERC - DC

APPENDIX A

PURPLE LOOSESTRIFE SURVEY - 2007

Purple Loosestrife Survey - 2007

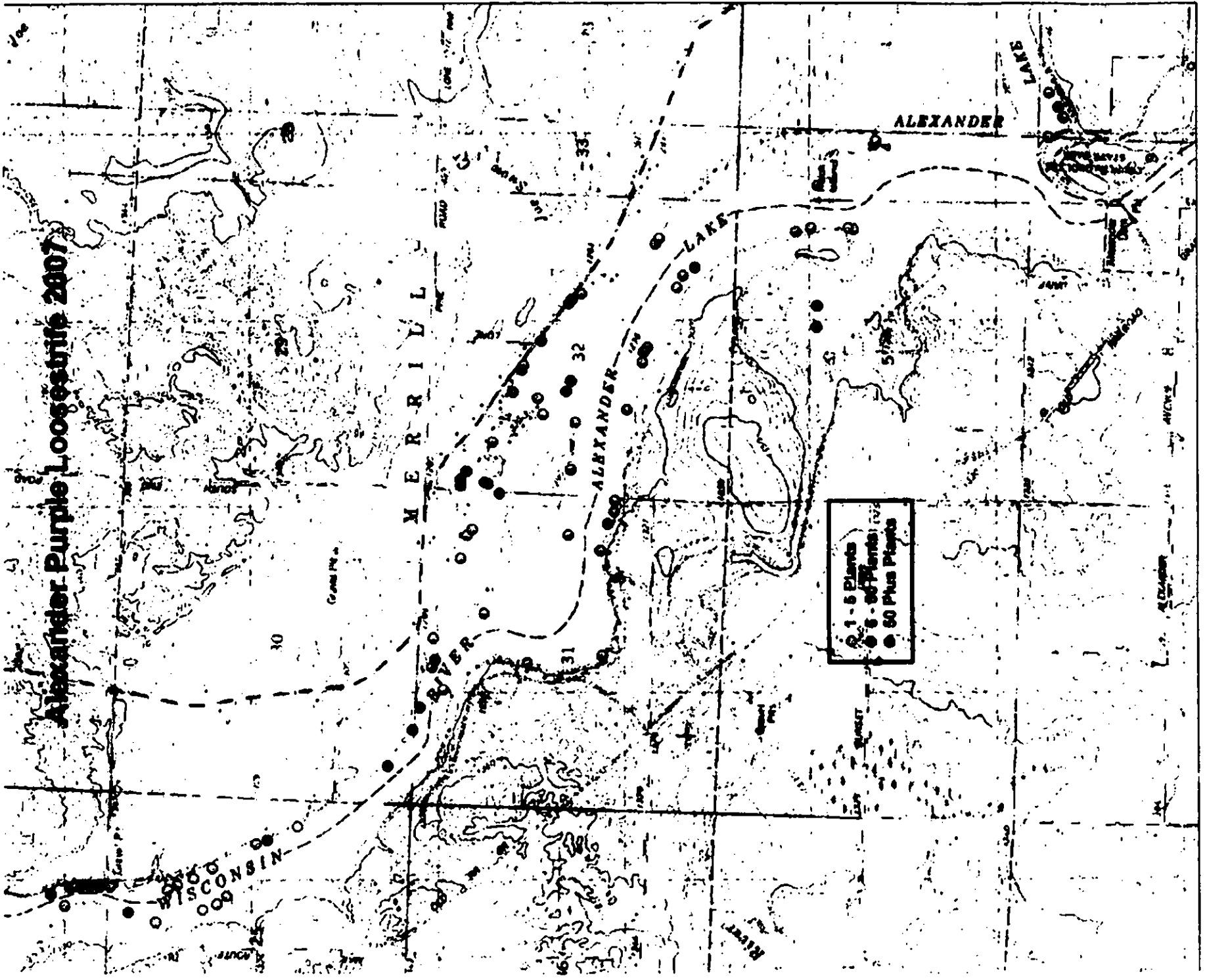
Alexander

Number	Latitude	Longitude	Amount
1	45 13.24042	89 47.25771	1-5 Plants
2	45 13.23168	89 47.22639	50+ Plants
3	45 13.23927	89 47.13952	1-5 Plants
4	45 13.18724	89 46.80859	1-5 Plants
5	45 13.15137	89 46.71370	1-5 Plants
6	45 13.13815	89 46.68780	1-5 Plants
7	45 13.17378	89 46.50861	50+ Plants
8	45 13.17440	89 46.48351	50+ Plants
9	45 13.15745	89 46.44846	50+ Plants
10	45 13.10511	89 46.49150	1-5 Plants
11	45 13.09413	89 46.49846	6-50 Plants
12	45 13.06183	89 46.53759	50+ Plants
13	45 13.08548	89 46.32754	1-5 Plants
14	45 12.94052	89 46.20825	1-5 Plants
15	45 12.87702	89 46.10790	50+ Plants
16	45 12.86472	89 46.06894	6-50 Plants
17	45 12.84809	89 46.23742	1-5 Plants
18	45 12.85583	89 46.43021	1-5 Plants
19	45 12.85910	89 46.69719	1-5 Plants
20	45 13.08340	89 47.03068	1-5 Plants
21	45 12.95928	89 46.14066	1-5 Plants
22	45 13.02993	89 46.11927	1-5 Plants
23	45 13.00567	89 46.02561	1-5 Plants
24	45 13.00163	89 46.00698	1-5 Plants
25	45 12.95400	89 45.90502	50+ Plants
26	45 12.87734	89 45.74967	1-5 Plants
27	45 12.86875	89 45.73285	6-50 Plants
28	45 12.84181	89 45.70735	1-5 Plants
29	45 12.83326	89 45.49063	1-5 Plants
30	45 12.82128	89 45.47058	1-5 Plants
31	45 12.16810	89 45.23106	1-5 Plants
32	45 12.00727	89 45.05826	1-5 Plants
33	45 12.00412	89 45.04209	1-5 Plants
34	45 11.50585	89 44.82190	1-5 Plants
35	45 11.47751	89 44.88105	1-5 Plants
36	45 11.46254	89 44.92146	1-5 Plants
37	45 11.50265	89 45.00366	1-5 Plants
38	45 12.15891	89 45.81012	50+ Plants
39	45 12.15736	89 45.72540	6-50 Plants
40	45 12.06027	89 45.40701	1-5 Plants
41	45 12.07584	89 45.40114	1-5 Plants
42	45 12.18308	89 45.40476	1-5 Plants
43	45 12.22545	89 45.42425	1-5 Plants
44	45 12.51677	89 45.58304	50+ Plants
45	45 12.55000	89 45.61948	1-5 Plants
46	45 12.56616	89 45.66813	1-5 Plants
47	45 12.64863	89 45.91843	1-5 Plants
48	45 12.65536	89 45.93721	1-5 Plants
49	45 12.68070	89 45.96039	1-5 Plants
50	45 12.70126	89 46.17656	1-5 Plants
51	45 12.72505	89 46.55212	1-5 Plants
52	45 12.72687	89 46.59799	1-5 Plants
53	45 12.74497	89 46.64714	1-5 Plants
54	45 12.76320	89 46.75885	1-5 Plants
55	45 12.74743	89 47.18383	1-5 Plants

Purple Loosestrife Survey - 2007

Alexander

Number	Latitude	Longitude	Amount
56	45 12.96475	89 47.22498	1-5 Plants
57	45 13.20486	89 47.35178	1-5 Plants
58	45 13.81152	89 48.22455	1-5 Plants
59	45 13.83987	89 48.25810	1-5 Plants
60	45 13.88049	89 48.28530	1-5 Plants
61	45 14.01583	89 48.34074	1-5 Plants
62	45 14.09293	89 48.30476	6-50 Plants
63	45 14.27683	89 48.28775	1-5 Plants
64	45 14.31856	89 48.24193	50+ Plants
65	45 14.26413	89 48.21032	6-50 Plants
66	45 14.24604	89 48.20463	1-5 Plants
67	45 14.23049	89 48.20274	6-50 Plants
68	45 14.20587	89 48.20325	6-50 Plants
69	45 14.17786	89 48.20455	6-50 Plants
70	45 14.14796	89 48.20477	1-5 Plants
71	45 13.96355	89 48.20838	1-5 Plants
72	45 13.95688	89 48.18868	1-5 Plants
73	45 13.90985	89 48.15909	1-5 Plants
74	45 13.85698	89 48.11285	1-5 Plants
75	45 13.73230	89 48.00745	1-5 Plants
76	45 13.69887	89 47.98895	6-50 Plants
77	45 13.61365	89 47.93122	1-5 Plants
78	45 13.36807	89 47.66903	6-50 Plants
79	45 13.28985	89 47.52115	50+ Plants
80	45 13.27031	89 47.42580	50+ Plants



Alexander Hydroelectric Project Purple Loosestrife Survey 2007

Size	Locations identified in 2006	Locations identified in 2007	Control Method
1 to 5	31	57	cut/spray
6 to 50	31	11	
50+	10	12	
Total	72	80	

APPENDIX B

EURASIAN WATERMILFOIL SURVEY - 2007

Eurasian Milfoil Survey – July 25, 2007

Alexander

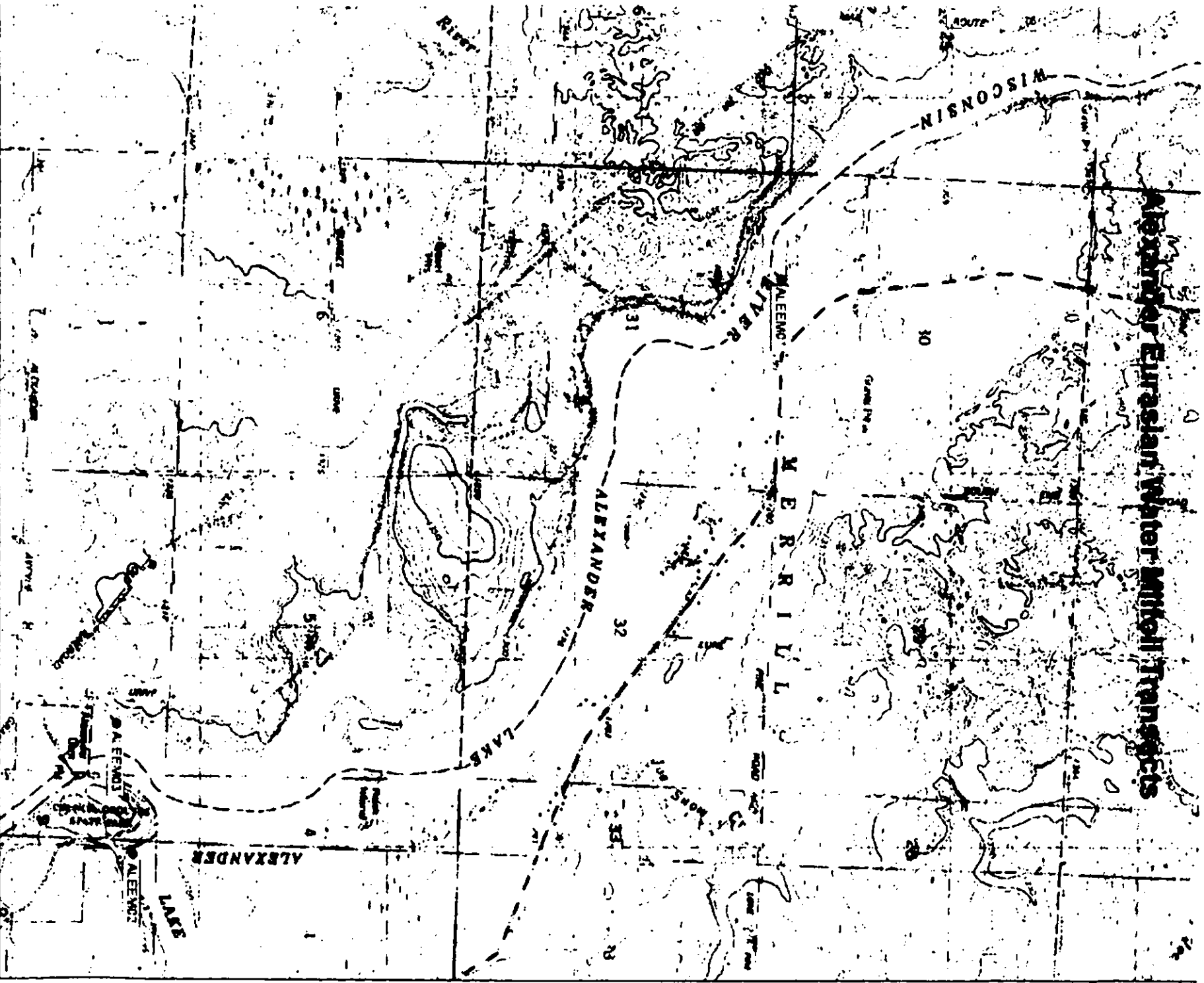
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin
1A	0	0	NA	NA	45 13.266
1B	0	0	NA	NA	89 47.399
1C	0	0	0	NA	
2A	0	0	NA	NA	45 11.460
2B	0	0	NA	NA	89 44.957
2C	0	0	NA	NA	
3A	0	NA	NA	NA	45 11.401
3B	0	NA	NA	NA	89 45.488
3C	0	0	NA	NA	

N/A: Not Applicable

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

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

Alexander Eurasian Water Mitchell Transacts



APPENDIX C

ZEBRA MUSSEL SURVEY - 2007

APPENDIX D

DOCUMENTATION OF SUBMITTAL - 2007



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

October 24, 2007

Mr. Scott Watson
Wisconsin Department of Natural Resources
Division of Water
5301 Rib Mountain
Wausau, WI 54401

Dear Mr. Watson:

FERC Project No. 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 (WPSC) is submitting the purple loosestrife, Eurasian watermilfoil and zebra mussel survey results.

The purple loosestrife survey was conducted on July 25, 2007. Purple loosestrife was identified within the Alexander Hydroelectric Project. A total of 80 colonies of purple loosestrife were identified at the project, an increase of 8 colonies from the 2006 survey. However, of the 80 colonies identified only 23 colonies were identified with a population greater than 5 plants, that is a decrease of 18 colonies from the 2006 survey. The information indicates that some colonies have decreased in population. WPSC believes this could be attributed to the spraying of colonies, which includes colonies greater than 1 to 5 plants.

WPSC will continue to monitor the successful spraying of purple loosestrife colonies identified during the annual surveys. The results of the 2007 purple loosestrife survey and 2006 to 2007 purple loosestrife comparison results are included in Appendix A.

The Eurasian watermilfoil survey was conducted on July 25, 2007. Eurasian watermilfoil samples were collected at three sampling locations within the Alexander Hydroelectric Project. No Eurasian watermilfoil was identified during the survey.

The sampling locations are located near public boat landings. GPS coordinates were collected for each sampling location. The boat landing near transect #3 was closed this year from recreational activities. A new boat landing has been relocated 475 feet to the north of the existing boat landing. In order to comply with the intent of Eurasian watermilfoil surveying outlined in the Invasive Species Monitoring Plan, WPSC is requesting to move transect #3 from the closed boat landing location to the new boat landing location for the 2008 surveying activities and there after. A summary of results has been included in Appendix B.

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 2006 inspections. A summary of the results has been included in Appendix C.

If you have any questions, please do not hesitate to call me at (920) 433-1460.

Sincerely,

James D. Nuthals
Environmental Consultant
for Wisconsin Public Service Corporation

syx

Enc.

cc: Ms. Joan Johaneck, WPSC
Mr. Bill Bloczynski, WPSC - MERH



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

October 24, 2007

Mr. Tyler Yasenak
U.S. Fish & Wildlife Service
Department of the Interior
2661 Scott Tower Drive
New Franken, WI 54229-9565

Dear Mr. Yasenak:

FERC Project No. 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 (WPSC) is submitting the purple loosestrife, Eurasian watermilfoil and zebra mussel survey results.

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Sincerely,

James D. Nuthals
Environmental Consultant
for Wisconsin Public Service Corporation

sx

Enc.

cc: Ms. Joan Johaneck, WPSC
Mr. Bill Bloczynski, WPSC - MERH



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

October 24, 2007

Mr. Phil Moy
UW Manitowoc
705 Viebann Street
Manitowoc, WI 54220

Dear Mr. Moy:

FERC Project No. 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 (WPSC) is submitting the survey results for 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 2007 inspections. A summary of the results has been included in Appendix A.

If you have any questions, please do not hesitate to call me at (920) 433-1460.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Nuthals".

James D. Nuthals
Environmental Consultant
for Wisconsin Public Service Corporation

syx

Enc.

cc: Ms. Joan Johaneč, WPSC
Mr. Bill Błoczynski, WPSC - MERH