

# ORIGINAL



**Wisconsin Public Service Corporation**  
(a subsidiary of WPS Resources Corporation)  
600 North Adams Street  
PO Box 19002  
Green Bay, WI 54307-9002

DEC 21 11:15 AM '06

December 19, 2006

FERC Project No. 1979  
NATDAM No. WI-00748

-034

Ms. Magalie R. Salas, Secretary  
Federal Energy Regulatory Commission  
Mail Code: DTCA, HL 21.3  
888 First Street, N.E.  
Washington, DC 20426

Dear Secretary Salas:

Alexander Hydroelectric Project - Exotic Species Monitoring

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 6, 2006. Purple loosestrife was identified within the Alexander Hydroelectric Project. A summary of the results is included in Appendix A.

The Eurasian watermilfoil survey was conducted on July 7, 2006. Eurasian watermilfoil surveys were collected at three sampling locations within the Alexander Hydroelectric Project. The sampling locations are located near public boat landings. Eurasian watermilfoil was not identified. 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.

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

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

Sincerely,

Terry P. Jensky  
Vice President - Energy Supply Operations  
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
- Ms. Peggy Harding, FERC- Chicago
- Ms. Carlisa Linton, FERC - DC

## **APPENDIX A**

### **2006 PURPLE LOOSESTRIFE SURVEY**

Purple Loosestrife Survey - 2006

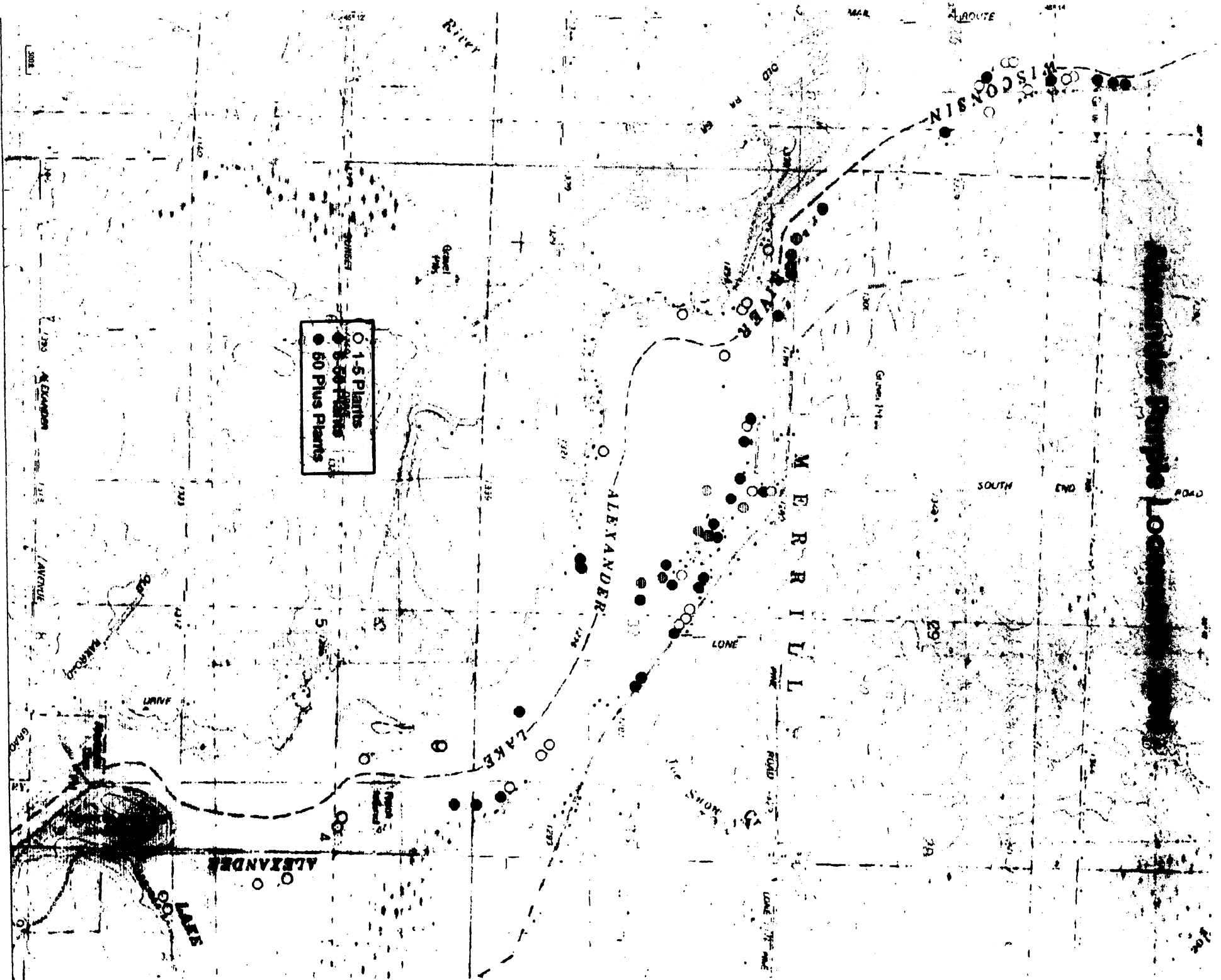
Alexander

Number	Latitude	Longitude	Amount
1	45 13.27392	89 47.39976	6-50 Plants
2	45 13.23930	89 47.22732	6-50 Plants
3	45 13.16874	89 46.80636	6-50 Plants
4	45 13.15980	89 46.77948	1-5 Plants
5	45 13.15176	89 46.71300	6-50 Plants
6	45 13.14276	89 46.56384	6-50 Plants
7	45 13.17918	89 46.51380	1-5 Plants
8	45 13.21008	89 46.51320	6-50 Plants
9	45 13.23198	89 46.51542	50+ Plants
10	45 13.15458	89 46.44588	50+ Plants
11	45 13.11810	89 46.48080	6-50 Plants
12	45 13.04820	89 46.51404	50+ Plants
13	45 13.07130	89 46.37808	6-50 Plants
14	45 13.08276	89 46.32276	6-50 Plants
15	45 13.06128	89 46.32852	6-50 Plants
16	45 13.05528	89 46.32774	50+ Plants
17	45 13.02606	89 46.34598	50+ Plants
18	45 12.93828	89 46.20714	6-50 Plants
19	45 12.92880	89 46.15764	50+ Plants
20	45 12.95652	89 46.12584	6-50 Plants
21	45 12.98340	89 46.16790	1-5 Plants
22	45 13.04780	89 46.15770	6-50 Plants
23	45 13.03176	89 46.11912	6-50 Plants
24	45 13.00848	89 46.02720	1-5 Plants
25	45 12.99864	89 45.99030	1-5 Plants
26	45 12.98094	89 45.96492	1-5 Plants
27	45 12.96488	89 45.92874	6-50 Plants
28	45 12.87342	89 45.74586	6-50 Plants
29	45 12.85458	89 45.70884	6-50 Plants
30	45 12.61410	89 45.46104	1-5 Plants
31	45 12.59202	89 45.41988	1-5 Plants
32	45 12.50430	89 45.28530	1-5 Plants
33	45 12.47916	89 45.24384	6-50 Plants
34	45 12.41118	89 45.21006	6-50 Plants
35	45 12.34572	89 45.21096	6-50 Plants
36	45 12.02028	89 45.15048	1-5 Plants
37	45 12.00816	89 45.11328	1-5 Plants
38	45 11.86578	89 44.90052	1-5 Plants
39	45 11.77830	89 44.87406	1-5 Plants
40	45 11.52048	89 44.76510	1-5 Plants
41	45 11.50686	89 44.81688	1-5 Plants
42	45 12.08124	89 45.38838	1-5 Plants
43	45 12.29310	89 45.44712	1-5 Plants
44	45 12.30444	89 45.44766	1-5 Plants
45	45 12.52620	89 45.59478	6-50 Plants
46	45 12.68308	89 46.18842	6-50 Plants
47	45 12.68922	89 46.22310	6-50 Plants
48	45 12.74802	89 46.86302	1-5 Plants
49	45 12.86388	89 46.06122	6-50 Plants
50	45 12.86496	89 46.13076	50+ Plants
51	45 13.09002	89 47.06376	1-5 Plants
52	45 12.96582	89 47.22588	1-5 Plants
53	45 13.13748	89 47.24892	1-5 Plants
54	45 13.14912	89 47.27640	1-5 Plants
55	45 13.20564	89 47.49588	1-5 Plants

<b>Purple Loosestrife Survey - 2006</b>
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Alexander
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Number	Latitude	Longitude	Amount
56	45 13.79454	89 48.18516	1-5 Plants
57	45 13.81584	89 48.21882	6-50 Plants
58	45 13.86708	89 48.27948	1-5 Plants
59	45 13.88964	89 48.28464	1-5 Plants
60	45 14.21118	89 48.20412	6-50 Plants
61	45 14.17656	89 48.20688	6-50 Plants
62	45 14.13024	89 48.21708	6-50 Plants
63	45 14.06178	89 48.22944	1-5 Plants
64	45 14.03946	89 48.21876	1-5 Plants
65	45 13.99662	89 48.21258	6-50 Plants
66	45 13.93236	89 48.17388	1-5 Plants
67	45 13.82442	89 48.08082	1-5 Plants
68	45 13.69860	89 47.98980	6-50 Plants
69	45 13.35804	89 47.66478	6-50 Plants
70	45 13.28568	89 47.54178	50+ Plants
71	45 13.27044	89 47.47836	50+ Plants
72	45 13.27032	89 47.42820	50+ Plants



## **APPENDIX B**

### **2006 EURASIAN WATERMILFOIL SURVEY**

**Eurasian Milfoil Surveys - 2006**

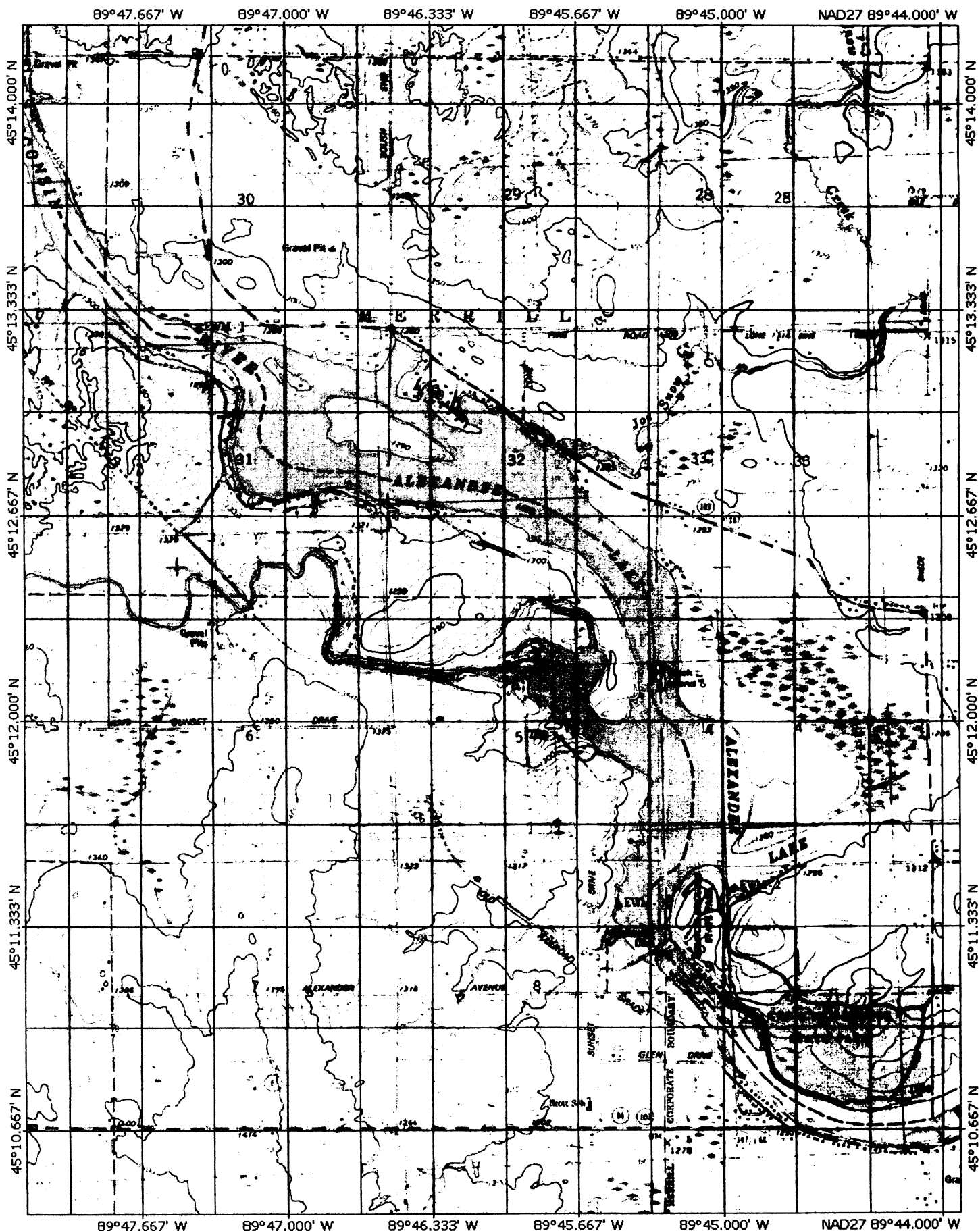
**Alexander**

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

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



1/4" MIN 2"



Map created with TOPO! © 2003 National Geographic (www.nationalgeographic.com/topo)



**APPENDIX C**  
**2006 ZEBRA MUSSEL SURVEY**

### ZEBRA MUSSEL INSPECTION RESULTS WESTERN HYDROELECTRIC PROJECTS

#### HYDRO NAME

- |  |   |                                   |                                       |
|--|---|-----------------------------------|---------------------------------------|
| <input type="checkbox"/> Grandfather Falls | <input checked="" type="checkbox"/> Merrill   | <input type="checkbox"/> Tomahawk | <input type="checkbox"/> Otter Rapids |
| <input type="checkbox"/> Wausau            | <input checked="" type="checkbox"/> Alexander | <input type="checkbox"/> Jersey   | <input type="checkbox"/> Hat Rapids   |

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>5-11-06</u>	
COMMENTS/RESULTS: <u>No Zebra</u>	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>6-4-06</u>	''
COMMENTS/RESULTS:	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>7-2-06</u>	''
COMMENTS/RESULTS:	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>8-12-06</u>	''
COMMENTS/RESULTS:	

INSPECTION TYPE: <input checked="" type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE: <u>9-9-06</u>	''
COMMENTS/RESULTS:	

INSPECTION TYPE: <input type="checkbox"/> MONTHLY INSPECTION	<input type="checkbox"/> INSPECTION DURING DRAWDOWN
DATE:	
COMMENTS/RESULTS:	

**APPENDIX D**

**2006 DOCUMENTATION OF SUBMITTAL**



**Wisconsin Public Service Corporation**  
(a subsidiary of WPS Resources Corporation)  
700 North Adams Street  
P.O. Box 19002  
Green Bay, WI 54307-9002

October 20, 2006

Mr. Robert Martini  
Wisconsin Department of Natural Resources  
107 Sutliff Ave.  
Rhinelander, WI 54501

Dear Mr. Martini:

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 6, 2006. Purple loosestrife was identified within the Alexander Hydroelectric Project. A summary of the results is included in Appendix A.

The Eurasian watermilfoil survey was conducted on July 7, 2005. Eurasian watermilfoil surveys were collected at three sampling locations within the Alexander Hydroelectric Project. The sampling locations are located near public boat landings. GPS coordinates were collected for each sampling location. No Eurasian watermilfoil was identified. 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.

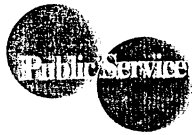
Sincerely,

  
James D. Nuthals  
Environmental Consultant

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Bill Bloczynski, WPSC - MERH



**Wisconsin Public Service Corporation**  
a subsidiary of WPS Resources Corporation  
700 North Adams Street  
P.O. Box 19002  
Green Bay, WI 54307-9002

October 20, 2006

Ms. Louise Clemency  
U.S. Fish & Wildlife Service  
2661 Scott Tower Drive  
New Franken, WI 54229-9565

Dear Ms. Clemency:

FERC Project No. 1979

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700 North Adams Street  
P.O. Box 19002  
Green Bay, WI 54307-9002

October 20, 2006

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

Dear Mr. Moy:

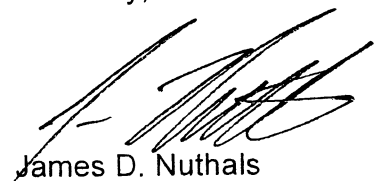
FERC Project No. 1979

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