



Wisconsin River Power Company
(owners of the Petenwell & Castle Rock Hydroelectric Plants)
P.O. Box 19001
Green Bay, WI 54307-9001

RECEIVED
DECEMBER 7 2006
SECRETARY

FERC Project No. 1984-078

134

December 7, 2006

2006 DEC -7 P 7:58

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

ORIGINAL

Dear Secretary Salas:

Invasive Species Monitoring for Petenwell-Castle Rock Project, FERC Project No. 1984-078

As per the revised order approving the purple loosestrife and Eurasian watermilfoil monitoring plan pursuant to the license Article 408 for the Petenwell-Castle Rock Project (FERC Project No. 1984-078) issued on July 13, 2005. Wisconsin River Power Company (WRPCO) is submitting the purple loosestrife, Eurasian watermilfoil and zebra mussel survey results.

The Petenwell and Castle Rock Flowages were surveyed for purple loosestrife from July 10, 2006 through July 13, 2006. The presence of purple loosestrife was identified on the Petenwell Flowage, mainly on the north end. Ten colonies were also identified on the southeast end of the flowage and ten colonies were discovered between the north and south end of the flowage. When small colonies and edge colonies were discovered, WRPCO sprayed and/or cut the identified colonies where possible. Three purple loosestrife colonies were identified on the Castle Rock Flowage. All three colonies were sprayed and/or cut.

Per the June 2, 2006 FERC issued 2005 purple loosestrife monitoring report letter, WRPCO is to document if removal methods have been conducted on the identified purple loosestrife colonies and if so, what type of removal methods were conducted. The Petenwell and Castle Rock Flowage 2006 purple loosestrife results and figures, including removal methods, are attached in Appendix A.

Eurasian watermilfoil surveys were also conducted on the Petenwell and Castle Rock Flowages from July 10, 2006 through July 13, 2006. Eurasian watermilfoil were identified at each of the five transect locations where samples were collected. The 2006 Eurasian watermilfoil survey results are similar to the results of the 2003 survey. The Petenwell and Castle Rock Flowage 2006 Eurasian watermilfoil results and figures are attached in Appendix B.

Zebra mussel surveys were conducted on a monthly basis from May to September. A zebra mussel survey was also conducted during the winter drawdown period. No zebra mussels were observed during the surveys. The results of the monthly surveys are attached as 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
Assistant Vice President - Energy Supply Operations
for Wisconsin Public Service Corporation
Telephone: (715) 355-2047

syx

Enc.

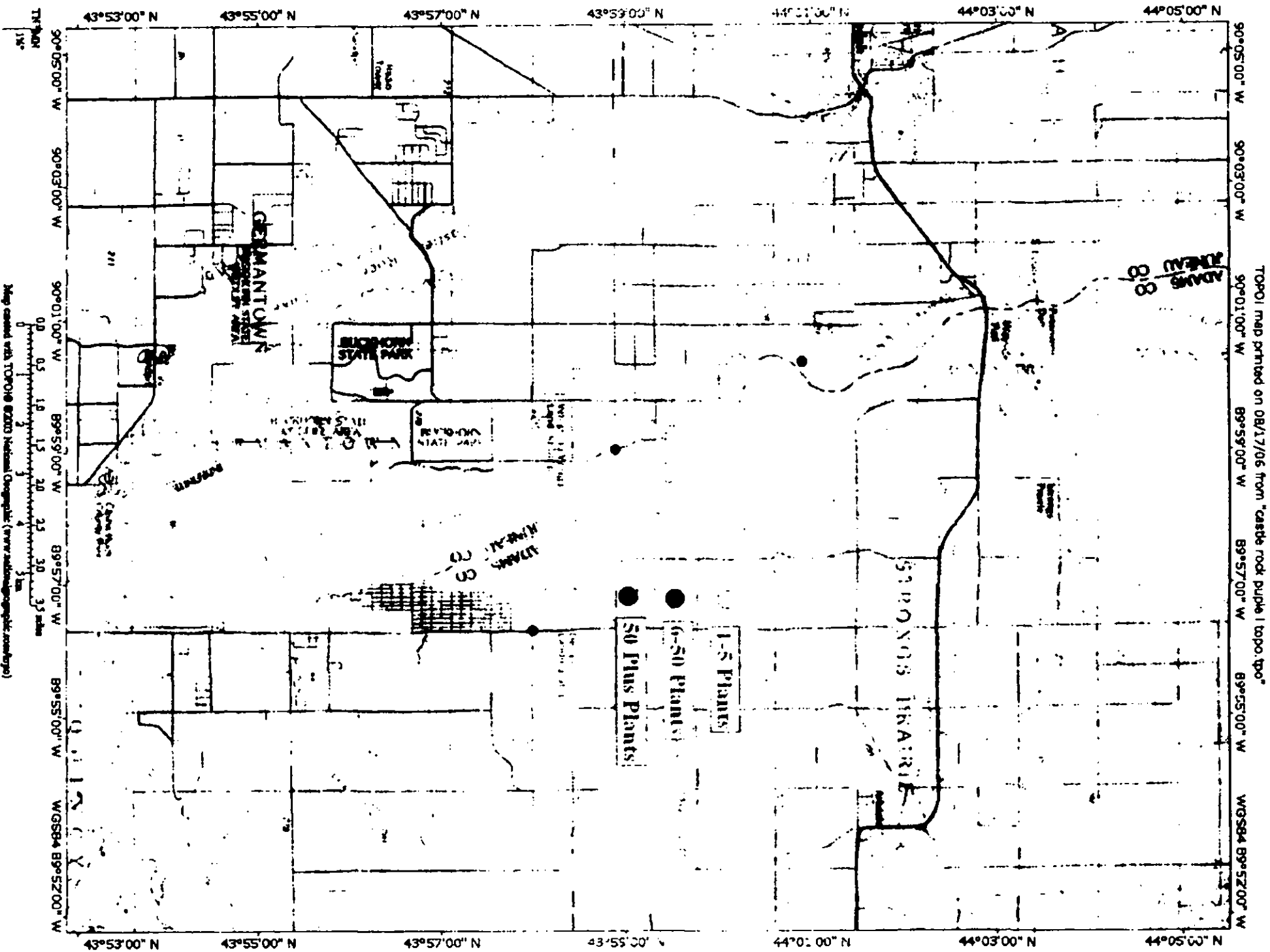
cc: Ms. Joan Johaneck, WPSC - D2
Mr. Virgil Schlorke - WRPCO
Mr. Bruce Crocker, WPSC - D2

Ms. Peggy Harding, FERC - Chicago
Mr. Gil Snyder, WPSC, D2
Ms. Carlisa Linton, FERC - DC

APPENDIX A

2006 PURPLE LOOSESTRIFE SURVEY

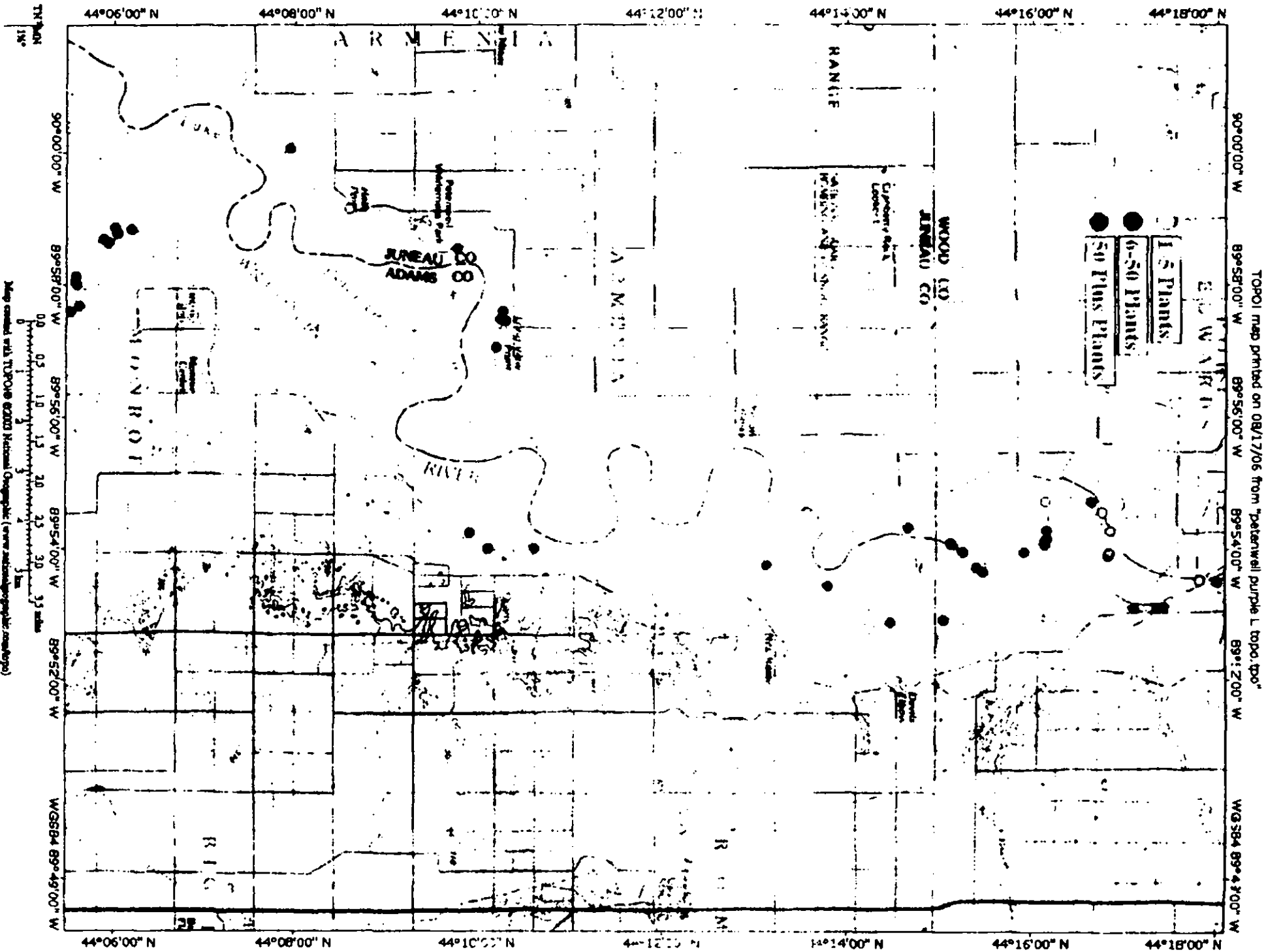
Purple Loosestrife Survey - 2006				
Castle Rock				
Number	Latitude	Longitude	Amount	Removal Method
1	N 43 58 53.1	W 89 59 00.0	8-50 Plants	Cut and Sprayed
2	N 43 57 58.1	W 89 58 16.4	50 + Plants	Sprayed
3	N 44 00 53.8	W 90 00 18.5	8-50 Plants	Cut and Sprayed



Purple Loostrike Survey - 2006

Peterwell

Number	Latitude	Longitude	Amount	Removal Methode
1	N 44 05 30.7	W 89 57 35.4	50+ Plants	Cut and Sprayed
2	N 44 05 33.4	W 89 57 40.2	50+ Plants	Cut and Sprayed
3	N 44 05 33.4 to N 44 05 32.5	W 89 57 59.5 to W 89 58 02.3	50+ Plants	NA
4	N 44 05 33.0	W 89 58 06.5	50+ Plants	NA
5	N 44 05 55.2	W 89 58 37.8	6-50 Plants	Cut and Sprayed
6	N 44 05 58.1	W 89 58 45.8	50+ Plants	NA
7	N 44 05 56.0	W 89 58 49.7	50+ Plants	NA
8	N 44 08 08.9	W 89 58 50.1	50+ Plants	NA
9	N 44 09 53.7	W 89 54 12.7	50+ Plants	Sprayed
10	N 44 10 06.1	W 89 54 00.0	50+ Plants	Sprayed
11	N 44 10 34.0	W 89 53 58.0	6-50 Plants	Cut and Sprayed
12	N 44 10 12.6	W 89 58 10.6	50+ Plants	Cut and Sprayed
13	N 44 10 15.8	W 87 57 28.5	6-50 Plants	Sprayed
14	N 44 10 15.7	W 89 57 28.1	6-50 Plants	Sprayed
15	N 44 10 14.8	W 89 57 32.9	6-50 Plants	Sprayed
16	N 44 09 44.8	W 89 58 33.1	6-50 Plants	Sprayed
17	W 44 08 35.6	W 89 58 10.5	1-5 Plants	Cut and Sprayed
18	N 44 07 55.8	W 90 00 02.8	6-50 Plants	Sprayed
19	N 44 04 16.3	W 90 02 00.3	50+ Plants	Sprayed
20	N 44 15 00.7	W 89 52 53.1	50+ Plants	NA
21	N 44 14 27.1	W 89 52 52.1	50+ Plants	NA
22	N 44 15 07.1 to N 44 15 14.4	W 89 54 04.2 to W 89 53 58.3	6-50 Plants	Cut and Sprayed
23	N 44 15 23.1	89 53 42.0	50+ Plants	NA
24	N 44 15 24.0	W 89 53 42.0	50+ Plants	NA
25	N 44 15 27.9 to N 15 32.7	W 89 53 37.2	50+ Plants	NA
26	N 44 17 05.1	W 89 53 05.9	6-50 Plants	NA
27	N 44 17 20.8	W 89 53 06.5	50+ Plants	NA
28	N 44 17 58.9	W 89 53 30.0	50+ Plants	NA
29	N 44 17 51.3	W 89 53 32.8	6-50 Plants	Cut and Sprayed
30	N 44 17 48.8	W 89 53 32.1	1-5 Plants	Cut and Sprayed
31	N 44 18 48.0 to N 44 18 48.4	W 89 53 53.4 to W 89 53 58.4	50+ Plants	NA
32	N 44 18 50.3	W 89 54 15.1	50+ Plants	NA
33	N 44 18 45.0	W 89 54 32.0	1-5 Plants	Cut and Sprayed
34	N 44 16 38.7	W 89 54 41.7	50+ Plants throughout channel	NA
35	N 44 18 06.5	W 89 54 41.3	0-5 Plants	Cut and Sprayed
36	N 44 18 09.6	W 89 54 15.4	50+ Plants	NA
37	N 44 16 08.3 to N 44 16 08.9	W 89 54 06.2 to W 89 54 05.3	50+ Plants	NA
38	N 44 16 08.1	W 89 54 02.1	50+ Plants	NA
39	N 44 15 34.2	W 89 53 55.8	50+ Plants (Island)	NA
40	N 44 14 39.4	W 89 54 17.4	50+ Plants	NA
41	N 44 13 07.3	W 89 53 44.5	50+ Plants BIG Island Stretches 200 ft	NA
42	N 44 13 45.6	W 89 53 25.2	50+ Plants	NA



APPENDIX B

2006 EURASIAN WATERMILFOIL SURVEY

Eurasian Milfoil Surveys - 2006

Castle Rock

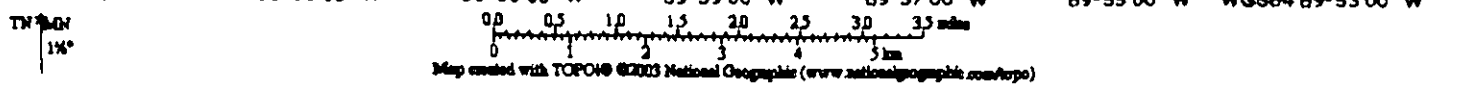
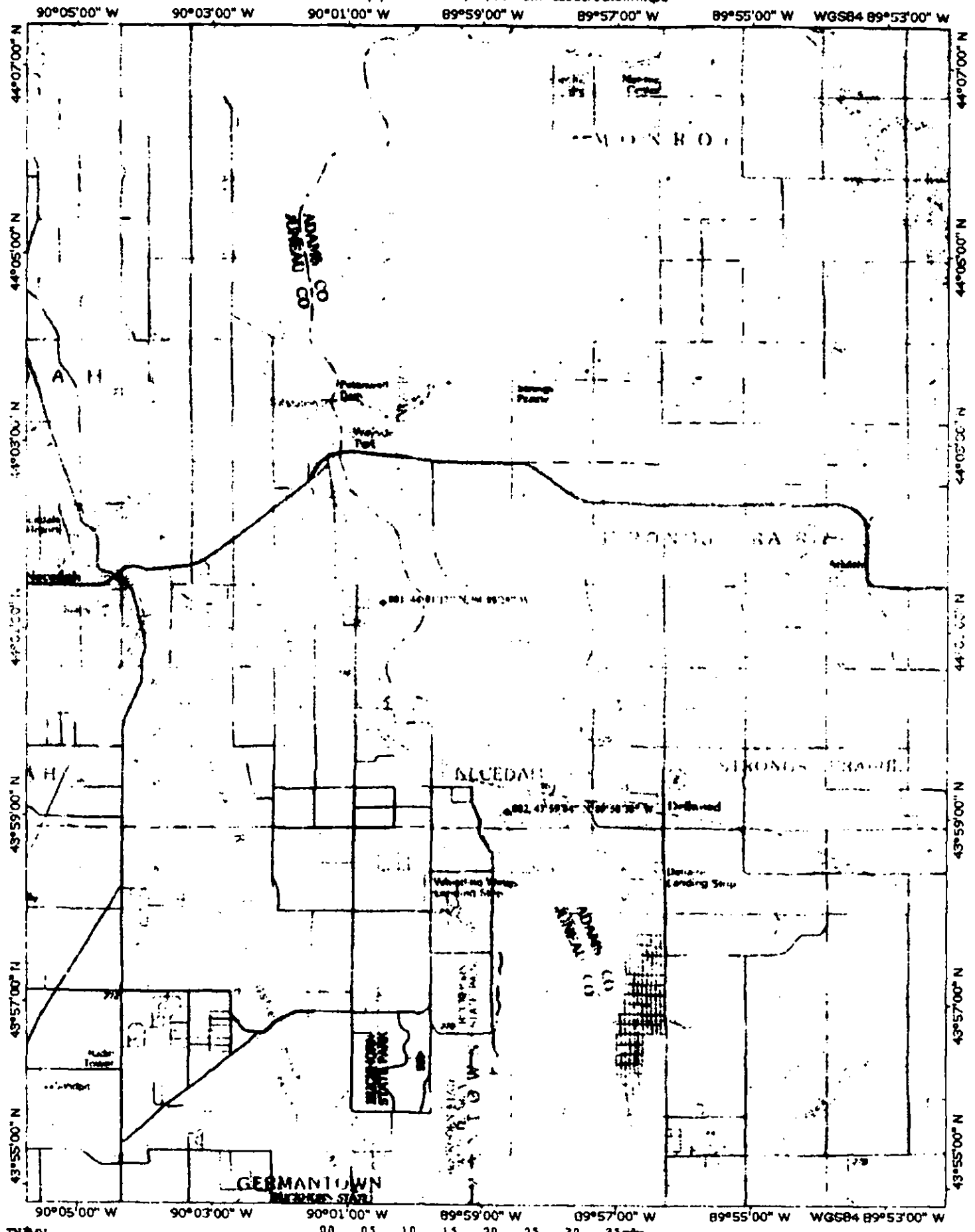
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin
1A	0	0	NA	NA	N 44 01 17.1 W 90 00 28.5
1B	0	1	NA	NA	
1C	1	2	NA	NA	
2A	0	0	NA	NA	N 43 59 04.0 W 89 58 58.1
2B	1	1	NA	NA	
2C	1	2	NA	NA	

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 in an easterly direction from their origin.

TOPOI map printed on 08/17/06 from "castlerockewm.tpo"



Eurasian Milfoil Surveys - 2006

Petenwell

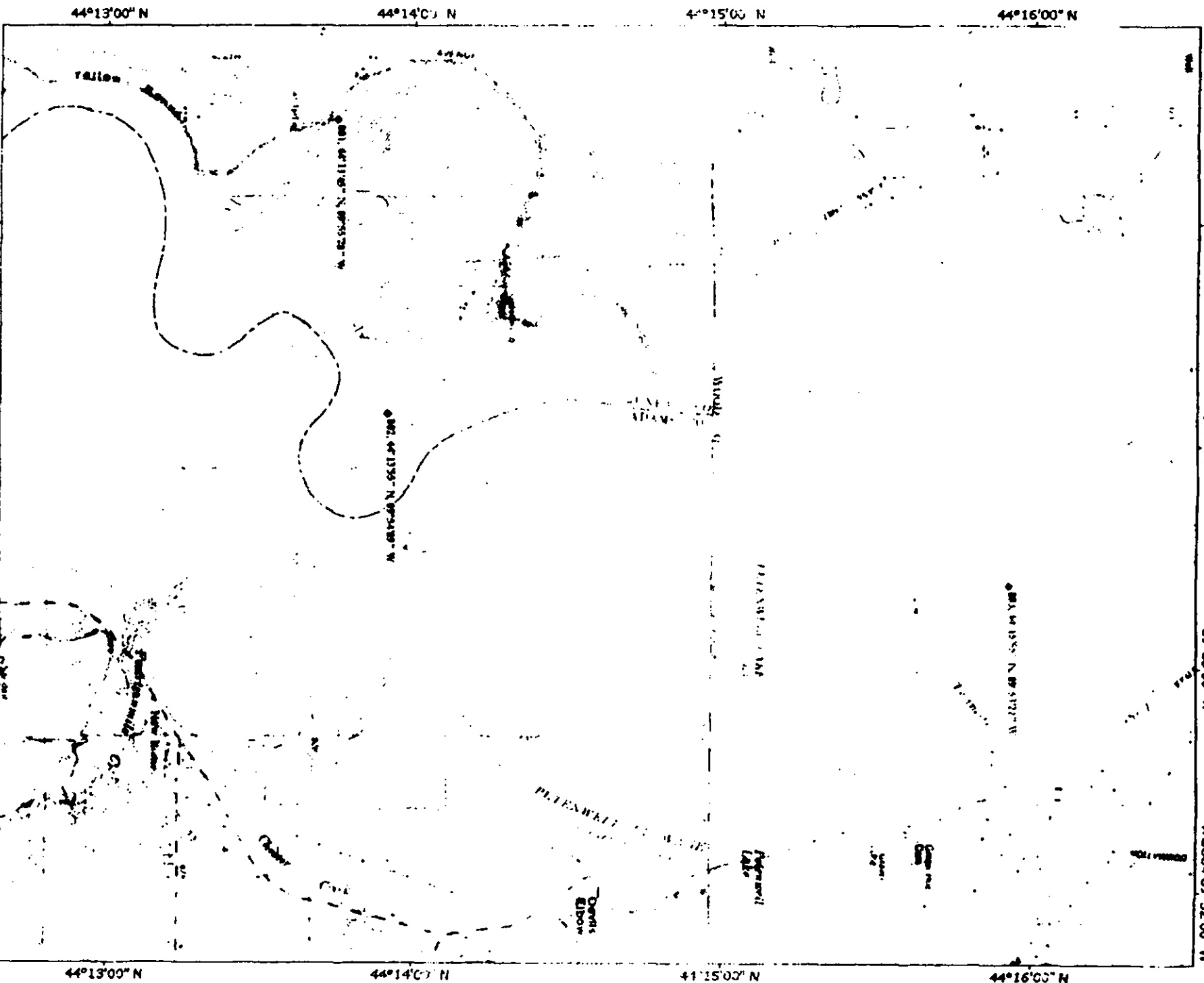
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin
1A	0	1	NA	NA	N 4 13 44.9 W 89 35 27.8
1B	0	1	NA	NA	
1C	0	1	NA	NA	
2A	4	4	NA	NA	N 44 13 55.0 W 89 54 18.8
2B	4	4	NA	NA	
2C	4	4	NA	NA	
3A	1	NA	NA	NA	N 44 15 55.4 W 89 53 22.4
3B	1	NA	NA	NA	
3C	1	NA	NA	NA	

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 in an easterly direction from their origin.

TOPOL map printed on 08/17/06 from "PatanwellEWA.dwg"



44°13'00" N 44°14'00" N 44°15'00" N 44°16'00" N

89°55'00" W 89°54'00" W 89°53'00" W 89°52'00" W

Map created with TOPOLIB 8000 National Geographic (www.nationalgeographic.com/topo)

APPENDIX C

2006 ZEBRA MUSSEL SURVEYS

ZEBRA MUSSEL INSPECTION RESULTS WRPCO HYDROELECTRIC PROJECTS

HYDRO NAME

- Peterwell Flowage
- Castle Rock Flowage

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 5/17/06
 COMMENTS/RESULTS: No Zebra Mussels Found

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 6-15-06
 COMMENTS/RESULTS: No Zebra Mussels Found

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 7-17-06
 COMMENTS/RESULTS: No Zebra Mussels Found

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 8-21-06
 COMMENTS/RESULTS: No Zebra Mussels Found

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 9-21-06
 COMMENTS/RESULTS: NO ZEBRA MUSSELS FOUND

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE:
 COMMENTS/RESULTS:

**ZEBRA MUSSEL INSPECTION RESULTS
WRPCO HYDROELECTRIC PROJECTS**

HYDRO NAME

- Peterwell Flowage
- Castle Rock Flowage

INSTALLED 4/28/06
CHECK UNIT: MONTH

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 5-17-06
 COMMENTS/RESULTS: NO Mussels

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 6-15-06
 COMMENTS/RESULTS: NO ZEBRA Mussels Found

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 7-17-06
 COMMENTS/RESULTS: No Zebra Mussels Found

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 8-16-06
 COMMENTS/RESULTS: NO ZEBRA MUSSELS Found

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE: 9-22-06
 COMMENTS/RESULTS: NO ZEBRA MUSSELS Found

INSPECTION TYPE: MONTHLY INSPECTION INSPECTION DURING DRAWDOWN
 DATE:
 COMMENTS/RESULTS:

APPENDIX D

2006 DOCUMENTATION OF SUBMITTAL



Wisconsin River Power Company
(owners of the Petenwell & Castle Rock Hydroelectric Plants)
P.O. Box 19001
Green Bay, WI 54307-9001

September 29, 2006

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

Dear Mr. Martini:

Exotic Species Monitoring for FERC Project No. 1984-078

As per the Federal Energy Regulatory Commission (FERC) order approving Purple Loosestrife and Eurasian Water Milfoil Monitoring Plan for the Petenwell-Castle Rock Project (FERC Project No. 1984-078) issued on January 22, 2003. Wisconsin River Power Company (WRPCO) is submitting the survey results for purple loosestrife, Eurasian watermilfoil and zebra mussels.

The Petenwell and Castle Rock Flowages were surveyed for purple loosestrife from July 10, 2006 through July 13, 2006. The presence of purple loosestrife was identified on the Petenwell Flowage, mainly on the north end. Ten colonies were also identified on the southeast end of the flowage and ten colonies were discovered between the north and south end of the flowage. When small colonies and edge colonies were discovered, WRPCO sprayed and/or cut the identified colonies, where possible. Three purple loosestrife colonies were identified on the Castle Rock Flowage. All three colonies were sprayed and/or cut.

Per the June 2, 2006, FERC issued 2005 purple loosestrife monitoring report letter, WRPCO is to report if removal methods have been conducted on the identified purple loosestrife colonies and if so, what type of removal methods were conducted. This information is to be reported in the annual invasive species monitoring reports.

The Petenwell and Castle Rock Flowage 2006 purple loosestrife results and figures, including removal methods, are attached in Appendix A

Eurasian watermilfoil surveys were also conducted on the Petenwell and Castle Rock Flowages from July 10, 2006 through July 13, 2006. Eurasian watermilfoil was identified at each of the five transect locations where samples were collected. The 2006 Eurasian watermilfoil survey results are similar to the survey conducted in 2003. The

Mr. Robert Martini
September 29, 2006
Page 2 of 2

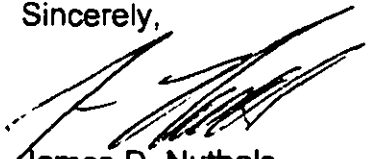
Petenwell and Castle Rock Flowage 2006 Eurasian watermilfoil results and figures are attached in Appendix B.

Per the FERC correspondence to WRPCO, dated June 5, 2006, WRPCO is required to conduct monthly inspections for zebra mussels on the Petenwell and Castle Rock Flowages. The inspections are to be conducted once each month from May to September on an annual basis. The surveys will also be conducted during the winter drawdown period and for any maintenance related drawdown. The results of the monthly surveys are attached as Appendix C.

No maintenance related drawdown has been conducted in 2006. Results of the winter drawdown zebra mussel survey will be conducted after the filing of this report. If any zebra mussels are identified during winter drawdown or during an unexpected maintenance related drawdown, WRPCO will notify the Wisconsin Department of Natural Resources (WDNR) and the U.S. Fish & Wildlife Service (FWS) of such findings.

Should you have any questions or require additional information, please do not hesitate to contact me at your earliest convenience.

Sincerely,



James D. Nuthals
Environmental Consultant
Telephone: (920) 433-1460

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2
Mr. Virgil Schlorke, WRPCO



Wisconsin River Power Company

Owner of the Petenwell & Castle Rock Hydroelectric Plants

P.O. Box 19001

Green Bay, WI 54307-9001

September 29, 2006

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

Dear Ms. Clemency:

Exotic Species Monitoring for FERC Project No. 1984-078

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Ms. Louise Clemency
September 29, 2006
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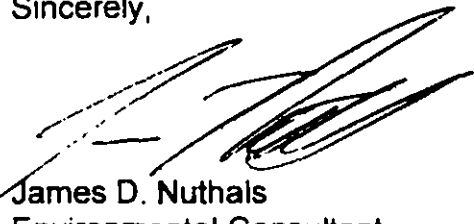
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No maintenance related drawdown has been conducted in 2006. Results of the winter drawdown zebra mussel survey will be conducted after the filing of this report. If any zebra mussels are identified during winter drawdown or during an unexpected *maintenance related drawdown*, WRPCO will notify the Wisconsin Department of Natural Resources (WDNR) and the U.S. Fish & Wildlife Service (FWS) of such findings.

Should you have any questions or require additional information, please do not hesitate to contact me at your earliest convenience.

Sincerely,



James D. Nuthals
Environmental Consultant
Telephone: (920) 433-1460

syx

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cc: Ms. Joan Johaneck, WPSC - D2
Mr. Virgil Schlorke, WRPCO