

ORIGINAL



Upper Peninsula Power Company  
(a subsidiary of Integrys Energy Group)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

December 12, 2007

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

Dear Secretary Bose:

FERC Project No. 1864 -084

As per the FERC ordered Nuisance Plant Control Plan, Upper Peninsula Power Company (UPPCO) is submitting the annual survey results for Eurasian watermilfoil and purple loosestrife, along with documentation of submittal to the resource agencies for the Bond Falls Hydroelectric Project (FERC Project No. 1864).

The purple loosestrife surveys were completed on August 13, 2007 and August 14, 2007 for the Bergland Development, Victoria Reservoir, and the Bond Falls Reservoir. The surveys did identify the presence of purple loosestrife within the project boundary within the Bergland Development.

Twelve colonies of purple loosestrife were identified as being located within the Bergland Development. Ten colonies were considered small colonies (1-5 plants) and two colonies were considered to be large colonies (50+ plants). All ten small colonies were cut and sprayed with an approved herbicide. One of the two large colonies was also sprayed with an approved herbicide.

The remaining large colony, that was not sprayed, is located on private property set in a garden. UPPCO will be contacting this individual and the colony will be controlled during the 2008 survey season. UPPCO will continue to monitor the success of the spraying methods at the Bergland Development. Appendix A includes the result of the purple loosestrife survey conducted on the Bergland Development, along with a purple loosestrife survey comparison of 2006 to 2007.

A Eurasian watermilfoil survey was also conducted on August 13-14, 2007, for the Bond Falls Hydroelectric Project. A total of ten sample locations were selected throughout the Bond Falls Hydroelectric Project. The samples were selected near high recreational traffic areas and areas with conditions suitable for Eurasian watermilfoil. The surveys did

FILED  
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REGULATORY COMMISSION

Ms. Kimberly D. Bose, Secretary  
December 12, 2007  
Page 2 of 2

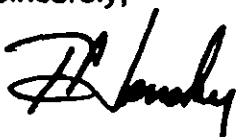
not indicate the presence of Eurasian watermilfoil at the Bond Falls Hydroelectric Project. Results from the Eurasian watermilfoil surveys are attached as Appendix B.

The Cisco Chain Riparian Owners Association (CCROA) have conducted Eurasian watermilfoil and purple loosestrife surveys on the Cisco Chain of Lakes. The Association members conducted the surveys throughout the summer in conjunction with recreational activities. No purple loosestrife was observed on the shoreline of the Cisco Chain of Lakes. Eurasian watermilfoil was indicated in Clearwater Lake, on the north end of the Cisco Chain of Lakes. The CCROA treated the areas of infestation in the spring and again in the fall. Curly-leaf pondweed was discovered at Lindsey Lake, located in the center of the Cisco Chain of Lakes. The Curly-leaf pondweed was treated in the spring of 2007. Attached as Appendix C, is a copy of the report produced by the CCROA.

The Eurasian watermilfoil and purple loosestrife results were provided to the resource agencies. No comments were received. Documentation of submittal of these results to the Bond Falls Implementation Team can be found in Appendix D.

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

Sincerely,



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

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Ms. Connie Granroth, UPPCO - UISC  
Mr. Gil Snyder, WPSC - D2  
Mr. Pat Fulsher, UPPCO - UISC

Mr. James Melchiori, UPPCO - UVD  
Mr. Howard Giesler, WPSC - PUL  
Ms. Carlisa Linton, FERC - DC

## **APPENDIX A**

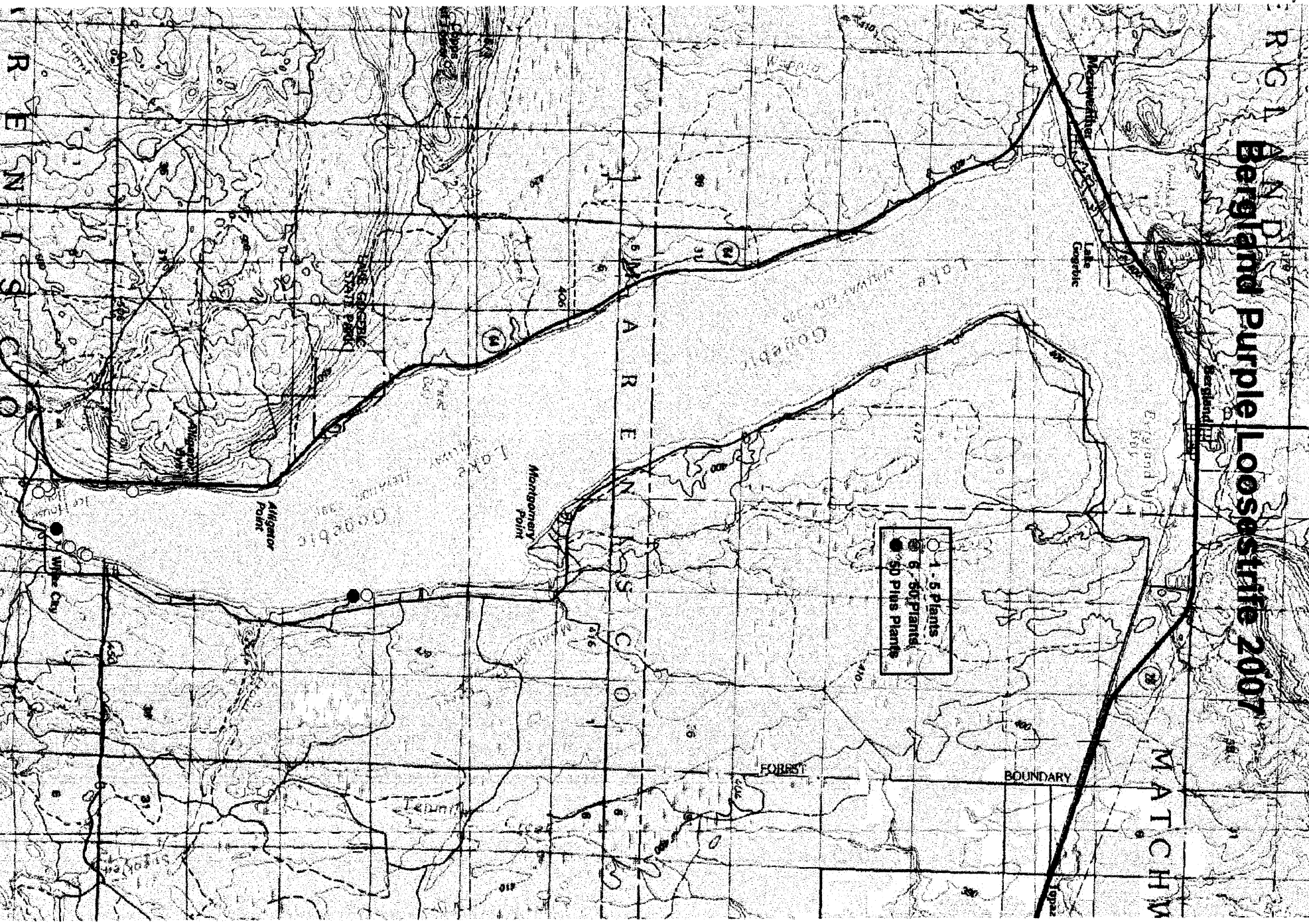
### **PURPLE LOOSESTRIFE SURVEY RESULTS - 2007**

Purple Loosestrife Survey - 2007

Bergland

Number	Latitude		Longitude		Amount
1	46	34.16117	89	37.96744	1-5 Plants
2	46	25.39654	89	33.05049	1-5 Plants
3	46	24.58336	89	33.03126	1-5 Plants
4	46	24.55566	89	33.08885	1-5 Plants
5	46	24.48327	89	32.99871	1-5 Plants
6	46	24.6631	89	32.5058	50+ Plants
7	46	24.77938	89	32.27897	1-5 Plants
8	46	24.79505	89	32.26337	1-5 Plants
9	46	24.93367	89	32.18669	1-5 Plants
10	46	24.8615	89	32.16353	1-5 Plants
11	46	27.55148	89	31.70784	50+ Plants
12	46	27.67557	89	31.72778	1-5 Plants

Black Bear Lodge garden



**Bond Falls Hydroelectric Project Purple Loosestrife Survey 2007**

<b>Size</b>	<b>Locations identified in 2006</b>	<b>Locations identified in 2007</b>	<b>Control Method</b>
1 to 5	3	10	cut/spray
6 to 50	0	0	
50+	1	2	sprayed (2007 1 of 2 sprayed)
<b>Total</b>	<b>4</b>	<b>12</b>	

## **APPENDIX B**

### **EURASIAN WATERMILFOIL SURVEYS RESULTS - 2007**

<b>Eurasian Milfoil Survey – August 14, 2007</b>
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<b>Bond Falls Hydroelectric Project</b>
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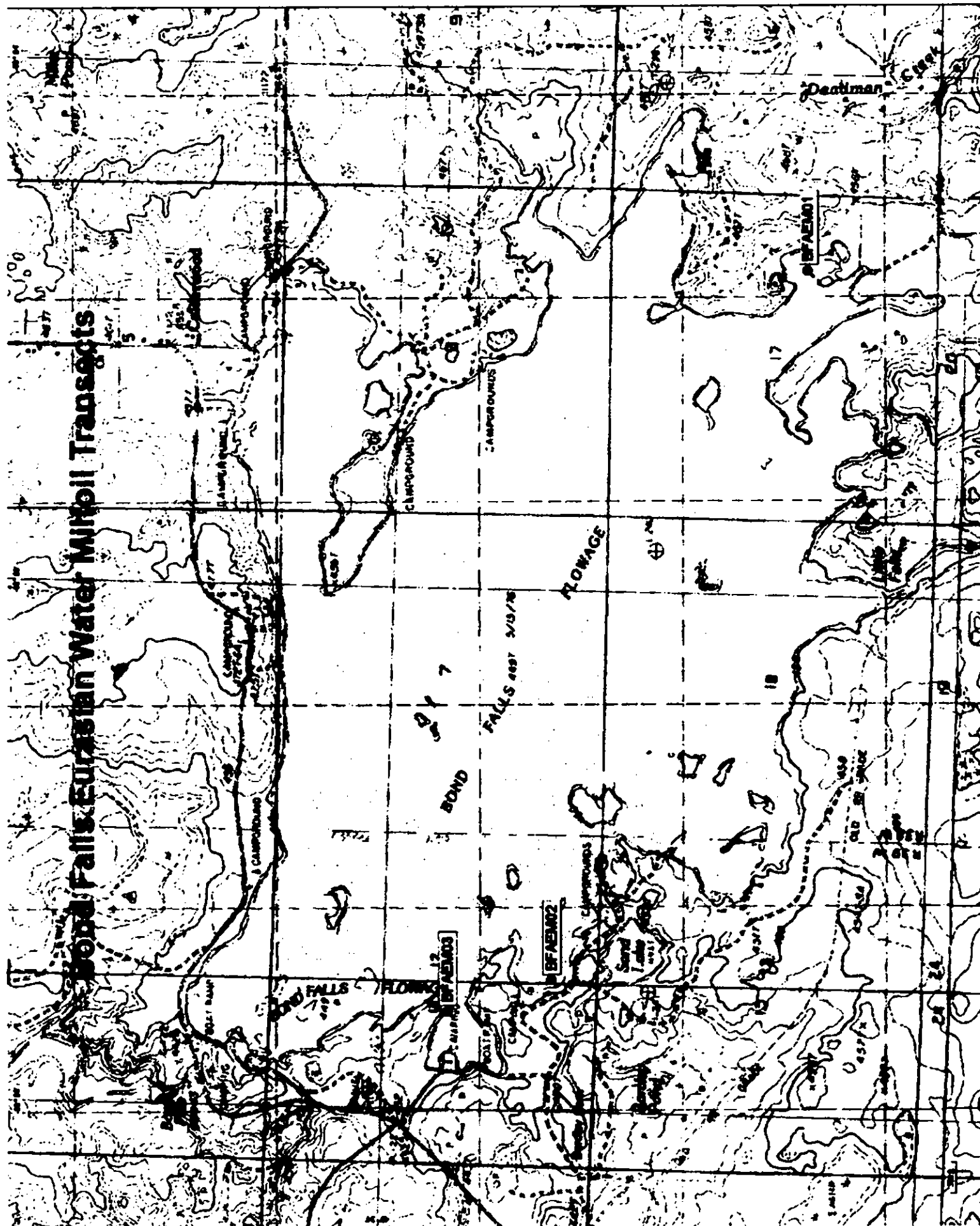
Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin	Perimeter
1A	0	0	NA	NA	N 46 22.917	
1B	0	0	NA	NA	W 89 04.757	
1C	0	0	NA	NA		
2A	0	NA	NA	NA	N 46 23.553	
2B	0	0	NA	NA	W 89 07.503	
2C	0	0	NA	NA		
3A	0	NA	NA	NA	N 46 23.827	
3B	0	0	NA	NA	W 89 07.631	
3C	0	0	NA	NA		

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





<b>Eurasian Milfoil Survey – August 14, 2007</b>
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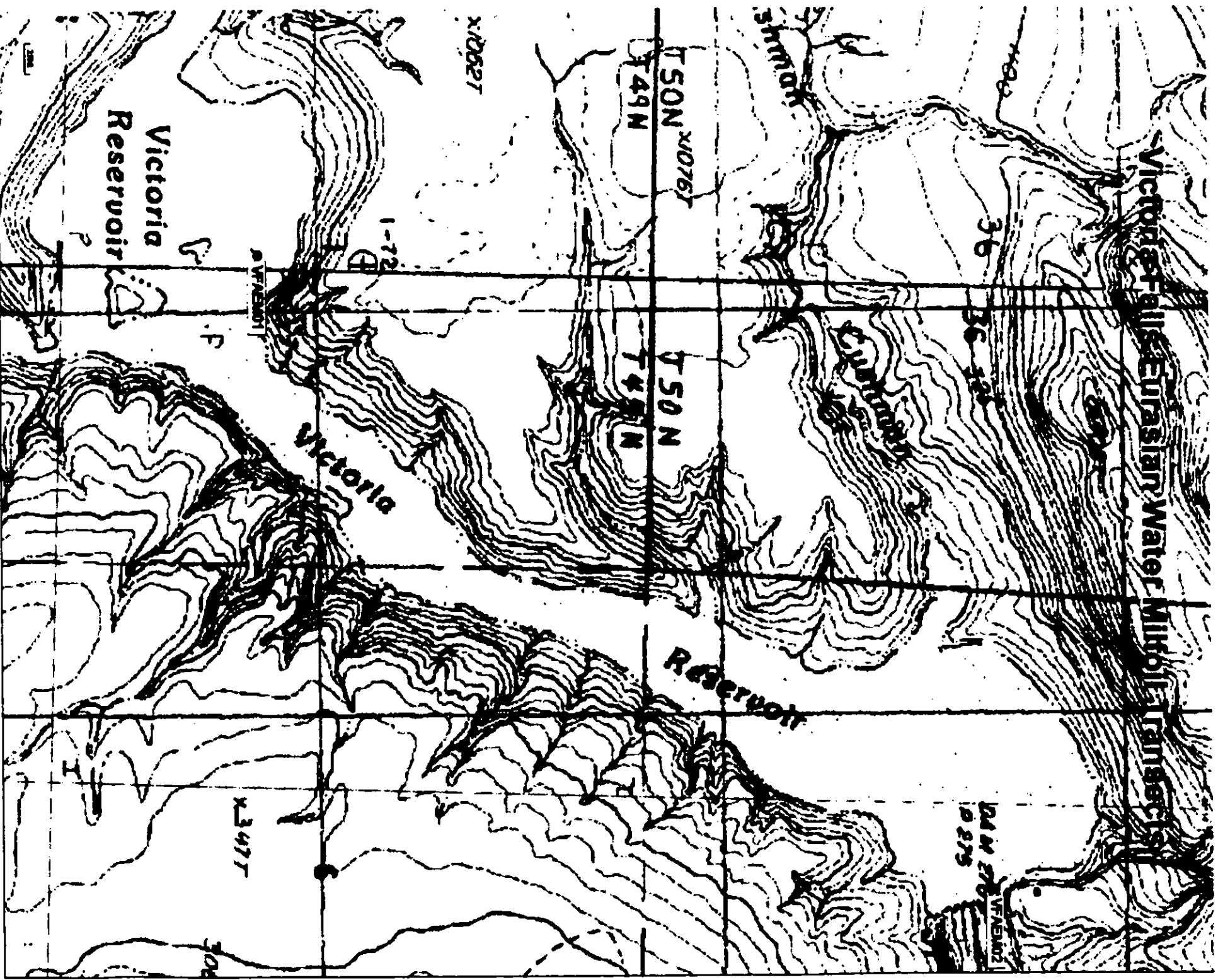
<b>Victoria Falls</b>
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Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin	Perimeter
1A	0	0	NA	NA	N 46 40.259	
1B	0	0	NA	NA	W 89 15.038	
1C	0	0	0	NA		
2A	0	0	NA	NA	N 46 41.266	
2B	0	0	NA	NA	W 89 13.837	
2C	0	0	0	NA		

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



<b>Eurasian Milfoil Survey – August 13, 2007</b>
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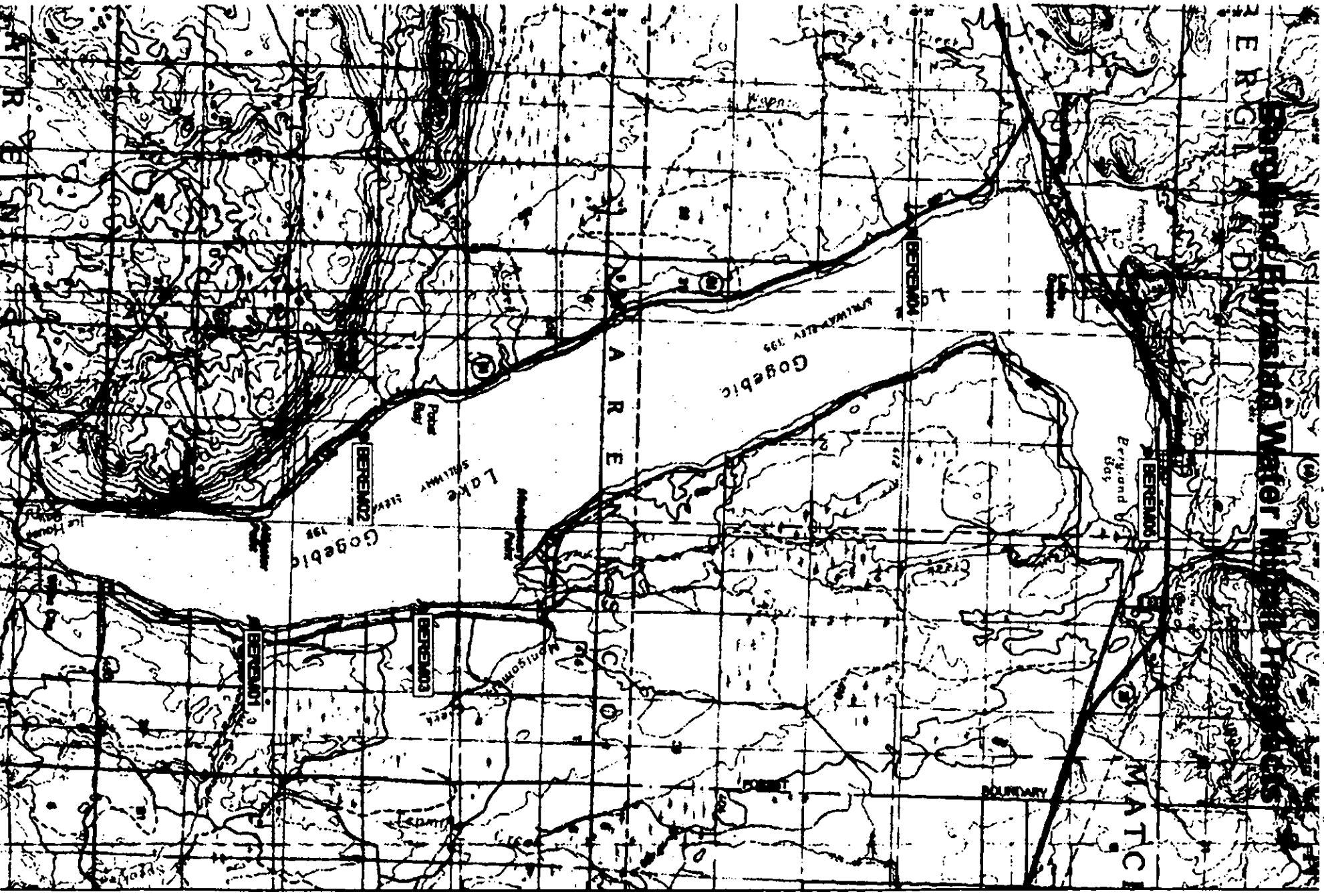
<b>Bergland/Gogebic</b>
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Transect #	0 - 0.5 M	0.5 - 1.5 M	1.5 - 3.0 M	> 3.0 M	Origin	Perimeter
1A	0	0	NA	NA	N 46 26.642	
1B	0	0	NA	NA	W 89 31.587	
1C	0	0	NA	NA		
2A	0	0	NA	NA	N 46 27.653	
2B	0	0	NA	NA	W 89 34.259	
2C	0	0	NA	NA		
3A	0	0	0	NA	N 46 28.294	
3B	0	0	0	NA	W 89 31.883	
3C	0	0	0	NA		
4A	0	0	NA	NA	N 46 32.984	
4B	0	0	NA	NA	W 89 37.401	
4C	0	0	NA	NA		
5A	0	NA	NA	NA	N 46 35.338	
5B	0	NA	NA	NA	W 89 34.391	
5C	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



## **APPENDIX C**

### **CISCO CHAIN RIPRAIN OWNERS ASSOCIATION SURVEY REPORT - 2007**

**CISCO CHAIN RIPARIAN OWNERS ASSOCIATION**  
**Box 687, Watersmeet, MI 49969, Land O'Lakes, WI 54540**

October 21, 2007

Mr. Jamie Nuthals  
700 N. Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

Dear Jamie,

Attached is the CCROA report for monitoring and controlling nuisance plants on the Cisco Chain of lakes for the year 2007. If you have any questions please call me. 1-906-358-4460 or e-mail me at [kullyr@yahoo.com](mailto:kullyr@yahoo.com).

Sincerely,

Kully Rohlen  
President Cisco Chain Riparian Owners Association

Attachments:

1. 2007 CCROA Nuisance Species Monitoring Report
2. 2007 Expenditures for Treatment of AIS
3. 2007 Hours dedicated to Cisco Chain Monitoring
4. 2008 Estimated Treatment Budget

## **Addendum #1**

### **CCROA Nuisance Species Monitoring**

This report is being prepared in compliance with the procedure outlined in the *Bond Falls Mitigation and Enhancement Fund Compensation Procedure for: Cisco Chain Riparian Owners association Nuisance Plant Survey and Control Protocol*, as requested by the Upper Peninsula Power Company in accordance with the Federal Energy Regulatory Commission order modifying and approving the Nuisance Plant Control Plan pursuant to article 411, Project Number 1864-024.

Lakes monitoring was conducted by nineteen officers and lake representatives of the CCROA from early May through September. There were hours committed by outside consultants such as John Skogerboe (Army Corp. of Engineers), Barb Gajewski (independent Professional), and Bob Langjahr (Aquatic Biologists). The hours committed by Cisco Chain volunteers totaled 152.45. If a \$25.00 per hour value was placed on this number it would constitute \$3,811.25 expenditure. Every Lake on the Cisco chain was monitored. Because of the number of new members on the Board Ian Shackleford, Federal Forestry Service botanist was brought in for AIS identification training. Training continued throughout the summer of 2007. The group received identification training from Ian Schackleford, on June 19, 2006. The area of inspection covered most of the 275 miles of shoreline with special emphasis on the shallow waters and areas near six boat landings.\* These shoreline areas were monitored simultaneously for purple loosestrife. No purple loosestrife was observed on any of the Cisco Chain shoreline. I must admit our concentration was on Aquatic Invasive species.



A number of weed samples were collected and given to CCROA officers for further checking with several samples being sent to the Forestry Service office for additional consultation. Again Eurasian water Milfoil was found on Clearwater Lake. Further inspection by Aquatic Biologist personnel and Barb Gajewski revealed five acres of Eurasian Milfoil. This was treated at the middle of May as the water temperature reached 55 degrees F. There was an additional treatment in the fall of visible weeds. The Michigan Department of Environmental Quality, Water Bureau had permitted the CCROA to treat this additional area this year.

A new sample of aquatic nuisance weed was discovered in an area of Lindsley Lake this summer. The Forest Service confirmed an identification of Curly Leaf Pondweed which is a cold weather grower, but becomes invasive over time. We will proceed with permit application and treatment for this weed in January, 2008.

The total cost of treatment for Clearwater Lake including the license and surveys cost \$15,262.9. The treatment for Lindsley Lake was \$ 5,810.43. The Association would appreciate your financial assistance with funds provided by the Plant Control Plan with funding from the Mitigation Enhancement Fund.

If the you or the Implementation Team have any suggestions for improving our monitoring program for 2008, we would appreciate hearing from you.

\* Location of boat landings on Cisco Chain. Clearwater Lake, Cisco Lake, Thousand Island Lake, Big Lake, Spring Creek at Thousand Island Lake Road, and Helen Creek at Highway B.

## **Addendum #2**

### **2007 Expenditures for Treatment of AIS**

Clearwater Lake	\$ 15,262.90
Lindsley Lake	\$ 5,810.43
Estimated CCROA Hours	\$ 3,811.25
 Total	 \$ 24,529.58

### **Addendum #3**

#### **Hours dedicated to Cisco Chain Monitoring**

Mamie Lake – Mike Christianson, Wes Kiley	7.5 Hours
East Bay lake – Karen Sauer	8.0 Hours
Indian Lake – Gloria Anderson	10.0 Hours
West Bay Lake – Wes Kiley	7.5 Hours
Big Lake – Karen Hartman	3.0 Hours
Big Lake – Tom Krautkramer	15.5 Hours
Lindsley Lake – Laurie Cooney	5.0 Hours
Lindsley Lake – Wes Kiley, Dean Challed	8.0 Hours
Lindsley Lake – John Skogerboe, Barb Gajewski	5.5 Hours
Fish Hawk Lake – Dean Challed	13.5 Hours
Poor Lake – Carolyn Rohlen	4.0 Hours
Thousand Island Lake – Rick Brashler	6.25 Hours
Thousand Island Lake – Frank Stanek	5.5 Hours
Cisco Lake – Don Hall	8.5 Hours
Clearwater Lake – Jean Erhart & Helen Hayhurst	7.7 Hours
All Lakes – Wes Kiley & Dick Mehlhop	37.0 Hours
<b>TOTAL</b>	<b>152.45 hours</b>

## **Addendum #4**

### **2008 Estimated Treatment Budget**

Clearwater Lake (10 acres) @ \$500.00 per acre = \$5,000.00

Fishhawk Lake (60 acres) @ \$500.00 per acre = \$30,000.00

Lindsley Lake (15-20 acres) @ \$ 63.00 per gal. = \$ 1,255.00

Permits = \$1,500.00

Surveys, monitoring, inspection = \$5,000.00

Total Estimated 2008 treatment Budget = \$42,755.00

\*\*\*\* We realize this budget constitutes a 74% increase over 2007. The logic is that Eurasian Water Milfoil on Clearwater is being better managed but still requires treatment; however, Curly Leaf Pond Weed has expanded greatly. We are applying for a "full" lake treatment of Fishhawk Lake in addition to a repeat treatment of Lindsley. Also a very small infestation was professionally confirmed on Big Lake at the boat landing, which we will treat early 2008 to keep it under the best management.

## **APPENDIX D**

### **DOCUMENTATION OF SUBMITTAL - 2007**



Upper Peninsula Power Company  
(a subsidiary of WPS Resources Corporation)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 25, 2007

Ms. Christie Deloria-Sheffield  
U.S. Fish & Wildlife Service  
1924 Industrial Parkway  
Marquette, MI 49855

Dear Ms. Deloria-Sheffield:

FERC Project No. 1864

As per the FERC ordered Noxious Plants Monitoring Plans, Upper Peninsula Power Company (UPPCO) is required to submit the results of the Eurasian watermilfoil and purple loosestrife monitoring surveys.

The purple loosestrife surveys were completed on August 13<sup>th</sup> and 14<sup>th</sup>, 2007 for the Bond Falls Hydroelectric Project (FERC Project No. 1864). The surveys did identify the presence of purple loosestrife within the project boundary.

Twelve colonies of purple loosestrife were identified as being located with the Bergland Development. Ten colonies were considered small colonies (1-5 plants) and two colonies were considered to be dense (50+ plants). All ten small colonies were cut and sprayed with an approved herbicide. One of the two (50+ plants) colonies was also sprayed with an approved herbicide.

The remaining large colony is located on private property, set in a garden. UPPCO will be contacting this individual and the colony will be controlled during the 2008 survey season. UPPCO will continue to monitor the success of the spraying methods at the Bergland Development. Appendix A includes the result of the purple loosestrife survey conducted on the Bergland Development, along with a purple loosestrife survey comparison of 2006 to 2007.

A Eurasian watermilfoil survey was also conducted on August 13<sup>th</sup> and 14<sup>th</sup>, 2007 for the Bond Falls Hydroelectric Project. A total of ten sample locations were selected throughout the Bond Falls Hydroelectric Project. The samples were selected near high recreational traffic areas and areas with conditions suitable for Eurasian watermilfoil. The surveys did not indicate the presence of Eurasian watermilfoil at the Bond Falls Hydroelectric Project. Results from the Eurasian watermilfoil surveys are attached as Appendix B.

The Cisco Chain Riparian Owners Association (CCROA) has conducted Eurasian watermilfoil and purple loosestrife surveys on the Cisco Chain of Lakes. The Association members conducted the surveys throughout the summer, in conjunction with recreational activities. No purple loosestrife was observed on the shoreline of the Cisco Chain of Lakes. Eurasian watermilfoil was indicated in Clearwater Lake, on the north end of the Cisco Chain of Lakes. The CCROA treated the areas of infestation in the spring and again in the fall. Curly-leaf pondweed was discovered at Lindsey Lake, located in the center of the Cisco Chain of Lakes. The Curly-leaf pondweed was treated in the spring of 2007. Attached as Appendix C, is a copy of the report produced by the CCROA.

Should you have any questions relative to this material, please do not hesitate to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Nuthals", is written over a horizontal line.

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

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Pat Fulsher, UPPCO - UISC



**Upper Peninsula Power Company**  
(a subsidiary of WPS Resources Corporation)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 25, 2007

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

Dear Mr. Mensch:

FERC Project No. 1864

As per the FERC ordered Noxious Plants Monitoring Plans, Upper Peninsula Power Company (UPPCO) is required to submit the results of the Eurasian watermilfoil and purple loosestrife monitoring surveys.

The purple loosestrife surveys were completed on August 13<sup>th</sup> and 14<sup>th</sup>, 2007 for the Bond Falls Hydroelectric Project (FERC Project No. 1864). The surveys did identify the presence of purple loosestrife within the project boundary.

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

syx

Enc.

cc: Ms. Joan Johanek, WPSC - D2  
Mr. Pat Fulsher, UPPCO - UISC



**Upper Peninsula Power Company**  
(a subsidiary of WPS Resources Corporation)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 25, 2007

Ms. Jessica Mistak  
Michigan Department of Natural Resources  
488 Cherry Creek Road  
Marquette, MI 49855-8999

Dear Ms. Mistak:

FERC Project No. 1864

As per the FERC ordered Noxious Plants Monitoring Plans, Upper Peninsula Power Company (UPPCO) is required to submit the results of the Eurasian watermilfoil and purple loosestrife monitoring surveys.

The purple loosestrife surveys were completed on August 13<sup>th</sup> and 14<sup>th</sup>, 2007 for the Bond Falls Hydroelectric Project (FERC Project No. 1864). The surveys did identify the presence of purple loosestrife within the project boundary.

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James D. Nuthals  
Environmental Consultant  
Telephone: (920) 433-1480

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Pat Fulsher, UPPCO - UISC





**Upper Peninsula Power Company**  
(a subsidiary of WPS Resources Corporation)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 25, 2007

Mr. Bill Deepphouse  
Michigan Hydro Relicensing Coalition  
1210 East Fifth Avenue  
Houghton, MI 49931

Dear Mr. Deepphouse:

FERC Project No. 1864

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James D. Nuthals  
Environmental Consultant  
for Wisconsin Public Service Corporation

syx

Enc.

cc: Ms. Joan Johanek, WPSC - D2  
Mr. Pat Fulsher, UPPCO - UISC



Upper Peninsula Power Company  
(a subsidiary of WPS Resources Corporation)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 25, 2007

Mr. Norman Nass  
United States Department of Agriculture - Forest Service  
Old US Hwy 2 East  
P.O. Box 276  
Watersmeet, MI 49969

Dear Mr. Nass:

FERC Project No. 1864

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A Eurasian watermilfoil survey was also conducted on August 13<sup>th</sup> and 14<sup>th</sup>, 2007 for the Bond Falls Hydroelectric Project. A total of ten sample locations were selected throughout the Bond Falls Hydroelectric Project. The samples were selected near high recreational traffic areas and areas with conditions suitable for Eurasian watermilfoil. The surveys did not indicate the presence of Eurasian watermilfoil at the Bond Falls Hydroelectric Project. Results from the Eurasian watermilfoil surveys are attached as Appendix B.

The Cisco Chain Riparian Owners Association (CCROA) has conducted Eurasian watermilfoil and purple loosestrife surveys on the Cisco Chain of Lakes. The Association members conducted the surveys throughout the summer, in conjunction with recreational activities. No purple loosestrife was observed on the shoreline of the Cisco Chain of Lakes. Eurasian watermilfoil was indicated in Clearwater Lake, on the north end of the Cisco Chain of Lakes. The CCROA treated the areas of infestation in the spring and again in the fall. Curly-leaf pondweed was discovered at Lindsey Lake, located in the center of the Cisco Chain of Lakes. The Curly-leaf pondweed was treated in the spring of 2007. Attached as Appendix C, is a copy of the report produced by the CCROA.

Should you have any questions relative to this material, please do not hesitate to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Nuthals", is written over a horizontal line.

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

syx

Enc.

cc: Ms. Joan Johaneck, WPSC - D2  
Mr. Pat Fulsher, UPPCO - UISC



**Upper Peninsula Power Company**  
(a subsidiary of WPS Resources Corporation)  
700 North Adams Street  
P.O. Box 19001  
Green Bay, WI 54307-9001

October 25, 2007

Mr. Scott Watson  
WDNR - Division of Water  
5301 Rib Mountain  
Wausau, WI 54401

Dear Mr. Watson:

FERC Project No. 1864

As per the FERC ordered Noxious Plants Monitoring Plans, Upper Peninsula Power Company (UPPCO) is required to submit the results of the Eurasian watermilfoil and purple loosestrife monitoring surveys.

The purple loosestrife surveys were completed on August 13<sup>th</sup> and 14<sup>th</sup>, 2007 for the Bond Falls Hydroelectric Project (FERC Project No. 1864). The surveys did identify the presence of purple loosestrife within the project boundary.

Twelve colonies of purple loosestrife were identified as being located with the Bergland Development. Ten colonies were considered small colonies (1-5 plants) and two colonies were considered to be dense (50+ plants). All ten small colonies were cut and sprayed with an approved herbicide. One of the two (50+ plants) colonies was also sprayed with an approved herbicide.

The remaining large colony is located on private property, set in a garden. UPPCO will be contacting this individual and the colony will be controlled during the 2008 survey season. UPPCO will continue to monitor the success of the spraying methods at the Bergland Development. Appendix A includes the result of the purple loosestrife survey conducted on the Bergland Development, along with a purple loosestrife survey comparison of 2006 to 2007.

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