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# MEAD & HUNT

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LABORATORY  
OF THE COMMISSION

November 11, 1996

Ms. Lois D. Cashell, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, DC 20426

*LD*

Subject: Article 411-(Annual Monitoring Report) – Order Issuing License – Minor Project  
Issued October 18, 1995  
City of Crystal Falls Hydroelectric Project; FERC Project No. 11402 - 012  
City of Crystal Falls, Michigan

Dear Ms. Cashell:

On behalf of the city of Crystal Falls, Michigan, we are hereby filing one original and eight copies of the city's Annual Monitoring Report, as required for the monitoring and control of exotic wetland species at the Crystal Falls Hydroelectric Project. The Annual Monitoring Report is being submitted as required in the city's plan for the monitoring and control of exotic wetland species (Article 411).

Copies have been sent to those entities that were consulted on matters related to this filing. Proof of service is also included.

Thank you for your consideration in this matter. If you have any questions, please contact Mr. Perry Rossa at (608) 273-6380.

Sincerely,

MEAD & HUNT, Inc.

*Arie DeWaal*

Arie DeWaal  
Senior Project Scientist

Enclosures

cc: See attached list

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FERC DOCKET #

NOV 19 1996

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Founded in 1900

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## Certificate of Service

I hereby certify that I, on behalf of the City of Crystal Falls, Michigan, have this day served the foregoing documents upon each person designated on the attached distribution list.

Dated this 11<sup>th</sup> day of November, 1996.



Arie DeWaal  
MEAD & HUNT, Inc.

## Distribution List

### Crystal Falls Hydroelectric Project (FERC Project No. 11402)

#### Article 411

Ms. Lois D. Cashell, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E.  
Washington, DC 20426

Mr. John H. Clements, Director  
Division of Project Review  
Office of Hydropower Licensing  
Federal Energy Regulatory Commission  
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Washington, DC 20426

Mr. Tom Dean  
Federal Energy Regulatory Commission  
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Mr. Walter E. Hagglund, City Manager  
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Mr. Perry Rossa  
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City of Crystal Falls  
Crystal Falls Dam  
FERC Project No. 11402-00

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Minor Project License - Article 411

REGULATORY  
COMMISSION

### Exotic Species Annual Monitoring Report

On February 7, 1996, the City of Crystal Falls submitted a plan containing monitoring and educational measures for the control of purple loosestrife (*Lythrum salicaria*) and Eurasian water milfoil (*Myriophyllum spicatum*) at the above-referenced facility on the Paint River. This plan was submitted in accordance with Article 411 of the Minor Project License. Its purpose is to educate the public about the ecological threat posed by these two species, monitor for them in project waters and provide information for their control, in cooperation with the Michigan Department of Natural Resources (MDNR), should they ever be detected. At the time of filing, neither species was known to occur in project waters.

This report presents the results of monitoring undertaken in July of 1996. During the latter two weeks of July, the project impoundment was drawn down for dam repairs and the low water levels exposed the entire wetland plant community for inspection. On July 30, a wetland biologist from Mead & Hunt, Inc., accompanied by MDNR and Crystal Falls staff, canoed the shoreline from a point approximately 1.5 miles upstream of the dam down to the boat landing on the eastern shore of the impoundment. Areas between the boat landing and Fairbanks Road where visually inspected from the shore.

No individuals or populations of either loosestrife or Eurasian water milfoil were found. Sub-littoral wetland vegetation consisted of water celery (*Vallisneria spiralis*), coontail (*Ceratophyllum demersum*), three species of pondweed (*Potamogeton zosteriformis*, *P. Robbinsii*, *P. Richardsonii*), and yellow water lily (*Nuphar advena*). *Potamogeton zosteriformis*, coontail and water celery were most dominant. Littoral wetland vegetation, confined largely to a narrow band along the shoreline, was dominated by cattails (*Typha latifolia*) and soft rush (*Scirpus validus*), save for a small wet meadow on the west shore several hundred feet north of the dam, which harbored a variety of sedges (*Carex* spp.) and wet meadow forbs.