



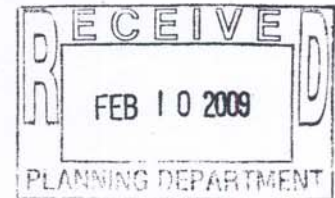
State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Matthew Frank, Secretary  
Ronald W. Kazmierczak, Regional Director

Northeast Region Headquarters  
2984 Shawano Ave.  
Green Bay, Wisconsin 54307-0448  
Telephone 920-662-5100  
FAX 920-662-5413  
TTY 920-662-5112

February 9, 2009

Door County  
Attn: Jill M Lau-County Clerk  
County government Center  
421 Nebraska Street  
Sturgeon Bay, WI 54235



Subject: Floodplain Zoning Ordinance Approval for Door County, Approval Number NE-F-315-82-3C

Dear Ms. Lau:

We appreciate your community's effort in upgrading your floodplain zoning regulations. Please note the conditions that must be met in order for this approval to remain valid.

Successful floodplain management and implementation of these regulations will depend on effective administration and enforcement of the ordinance. Please keep us advised of any problems associated with this administration and let us know when we can be of assistance. Mike Russo of our Green Bay office, 920-662-5472, is available to assist you with any problems.

FINDINGS OF FACT

1. On January 26, 2009, Door County adopted text and map amendments to its Floodplain Zoning Ordinance, following public notice and hearing.
2. The purpose of this amendment is to revise the Floodplain Zoning Ordinance to bring it into compliance with state and federal minimum floodplain management standards.

CONCLUSIONS OF LAW

1. The Department is authorized by s. 87.30, Wis. Stats., and Ch. NR 116.21 and NR 116.22, Wis. Adm. Code, to review and approve amendments to floodplain zoning ordinances.
2. The community has complied with the procedural requirements for adoption of this amendment according to Wisconsin Statutes.
3. This amendment substantially complies with the requirements of Ch. NR 116, Wisconsin Administrative Code and 44 CFR, Part 60.

DECISION

The Department **CONDITIONALLY APPROVES** this amendment, subject to the following conditions.

1. Your community may have floodplain areas which have not been mapped according to the hazard potential of a dam or dams which affect the community. After an inspection and/or analysis of the dam(s), changes to the floodplain zoning of the affected areas may be necessary.
2. ~~SP~~ According to Ch. NR 116, Wisconsin Administrative Code and National Flood Insurance Program regulations, your community must send all map revisions affecting floodplain elevations, boundaries and text changes to the Department Regional Office in Green Bay, Wisconsin and to the Federal Emergency Management Agency, 536 S. Clark St., 6<sup>th</sup> Floor, Chicago, IL. 60605.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that Wisconsin statutes and administrative rules establish time periods within which request to review Department decisions must be filed.

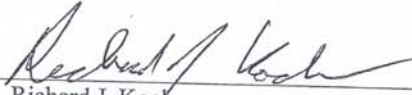
For judicial review of a decision pursuant to sections 227.52 and 227.53, Statutes, you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review shall name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to section 227.42, Statutes, you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of Department of Natural Resources. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

This notice is provided pursuant to section 227.48(2), Statutes. This decision was mailed on February 9, 2009.

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES  
For the Secretary

By: \_\_\_\_\_

  
Richard J. Koch  
Floodplain Specialist

cc: Julia McCarthy, FEMA-Chicago  
Dave Sautebin-Zoning Administrator  
Mike Russo  
Gary Heinrichs, Bureau of Watershed Mgt  
Miriam Anderson, Bureau of Watershed Mgt.



## County of Door PLANNING DEPARTMENT

County Government Center  
421 Nebraska Street  
Sturgeon Bay, WI 54235

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**Mariah Goode, Director**

Phone: (920) 746-2323

FAX: (920) 746-2387

Website: <http://map.co.door.wi.us/planning>

### **Notes regarding Door County Floodplain Ordinance and accompanying maps**

The Door County Floodplain Ordinance is only in effect in the unincorporated areas of the county (the 14 towns). Properties in any of the four villages (Egg Harbor, Ephraim, Forestville, Sister Bay) or the City of Sturgeon Bay that are shown on the Door County Web Map as being in the floodplain will be subject to the floodplain regulations that may have been adopted by the municipality within which the property is located.

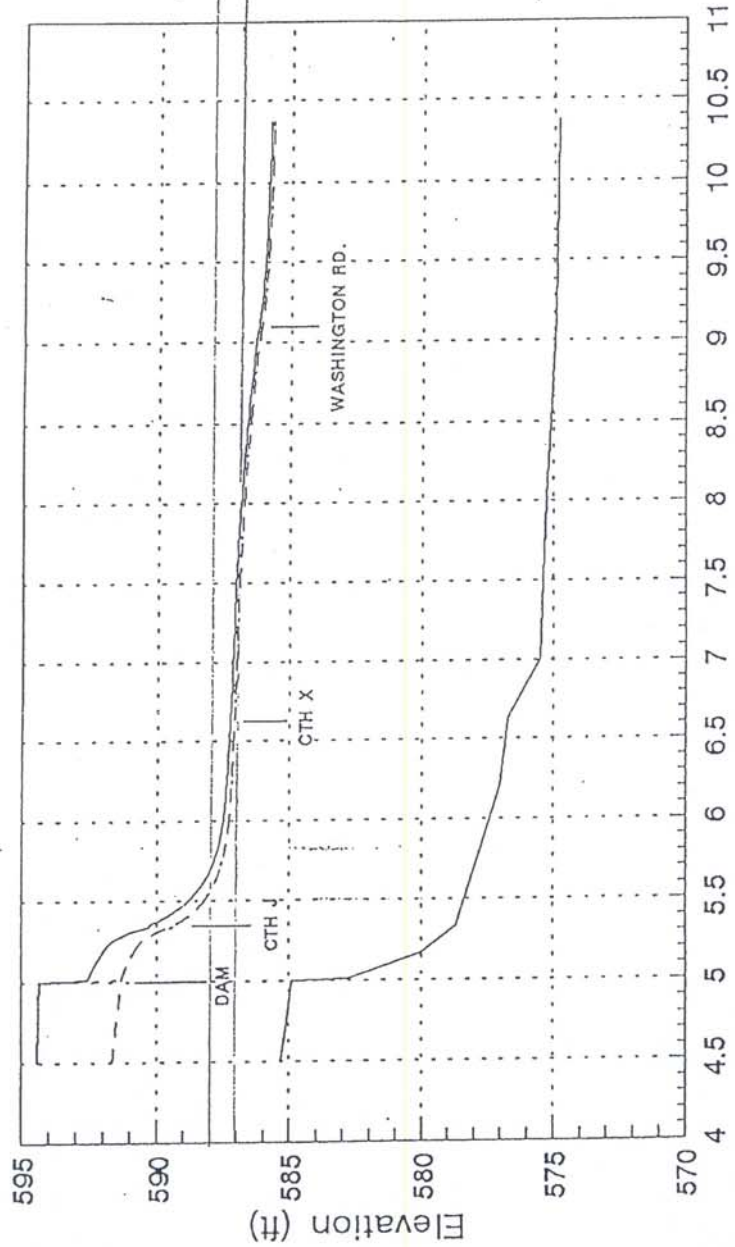
Areas depicted as floodplain, as posted on the Door County Web Map do, however, include areas in the villages and the city as well as the towns. To view floodplain areas through the Door County Web Map:

- a. Go to the County's Home page: <http://www.co.door.wi.gov>
- b. Under Quick Links to the far right, select the bottom option – Door County Web Maps & Land Records.
- c. From this Door County Land Information Portal page, select the far-right option – Door County Web Map.
- d. Once the Web Map loads, look in the upper-left portion of the page under the third "pull-down" menu (entitled "Choose a Map Theme") to select "FEMA Flood Hazards." You can then navigate to any area of interest.

Any questions, problems, or concerns using the Web Map can be directed to Tom Haight, Door County GIS/LIO Coordinator at 920-746-2391 or e-mail ( [thaight@co.door.wi.us](mailto:thaight@co.door.wi.us) ).

**LOWER AHNAPPEE RIVER  
DAM FAILURE ANALYSIS**

# Ahnapee River - Door County River Profile from DAMBRK



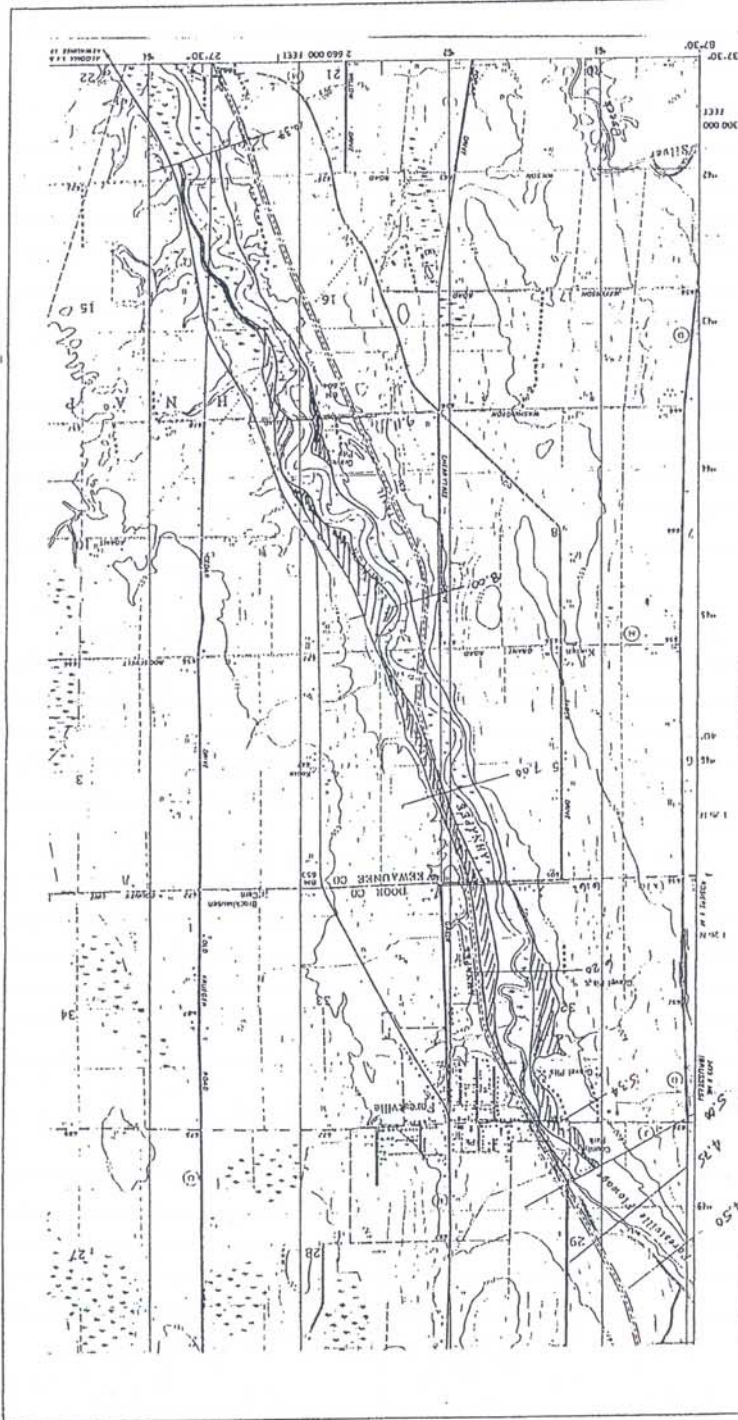
DAMBRK River Mile

— Fail    - - - No Fail    - - - No Dam    — Stream Invert



**TABLE 2**  
**Compare Failure and No Failure With Dam In Place**

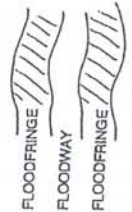
XS	Distance from Dam (mi)	Description	Failure Elevation (ft)	Peak Q (cfs)	Failure Elevation (ft)	Peak Q (cfs)	Incremental Rise (ft)	Width of Floodway (ft)
4.5		Reservoir	592.42	1,450	592.42	1,450		306
4.75		Reservoir	594.38	2,082	594.38	1,450		381
5.00		Forestville Dam	594.34	2,990	594.34	1,450		485
5.01	0.01		592.57	2,990	592.57	1,450	2	445
5.34	0.34	CTH J	590.27	2,154	590.27	1,450	0	168
5.35	0.35		590.26	2,154	590.26	1,450	0	224
6.20	1.20		587.41	1,843	587.23	1,450	3	648
6.62	1.62	CTH X	587.28	1,760	587.2	1,450	3	533
6.63	1.63		587.27	1,760	587.1	1,450	3	533
7.00	2.00		587.19	1,713	587.04	1,450	5	670
8.00	3.00		586.90	1,608	586.78	1,450	2	124
9.11	4.11	Washington Road	586.27	1,545	586.17	1,450	0	452
9.12	4.12		586.26	1,545	586.15	1,450	0	452
10.37	5.37		585.84	1,506	585.73	1,450	0	778



**FORESTVILLE DAM**

ANNAPEE RIVER  
DOOR AND KEWAUNEE COUNTIES, WISCONSIN

DATE: JANUARY, 1936	SCALE: 1" = 1000'
DESIGNED BY: MEAD & HUNT	SHEET 1 OF 1
CHECKED BY: [Name]	DATE: [Date]
APPROVED BY: [Name]	PROJECT NO. 9133-33A



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## CLARK LAKE

### FLOOD ELEVATION

- 98.0 - Elevation of angle iron of east spillway on dam.
- 100.2 - 100-year flood elevation.
- 102.2 - Flood protection elevation.



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**CORRESPONDENCE / MEMORANDUM**STATE OF WISCONSIN

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DATE: May 9, 1983

FILE REF: 3550

TO: Bill Marlett - WRZ/5

RECEIVED DNR

FROM: Dave Carlton - WRZ/5

MAY 10 1983

Lake Mich. Dist.

SUBJECT: *100* 100-Year Flood Elevation for Clark Lake, Door County

MAY 12 1983

On September 16, 1982, new orders were issued for the Clark Lake Dam. The new orders set a maximum summer lake elevation of 98.0 feet and a maximum winter and spring elevation of 97.5 feet.

The HEC-1 model of the drainage basin has been modified to reflect the new orders. The summer conditions were modeled with the stop logs in place and an assumed lake elevation of 98.0 feet. The winter and spring conditions were modeled without the stop logs in place and an assumed lake elevation of 97.5 feet. The peak lake elevation 100.2 feet occurred with the summer conditions. Since the winter peak was 99.4 feet, the summer peak of 100.2 feet should be used as a regional flood elevation for regulatory purposes.

DC:slh

~~cc:~~ Dick Koch - Lake Michigan District

4191H

# EUROPE LAKE

## FLOOD DATA

- 100.0 - Bench mark; red painted steel pipe West of lake on fence line North of public access on West side of lake (East end of Europe Lake Road).
- 96.9 - Benchmark; Southeast corner of concrete step at portable dock (K. Brey, Jr; 6-4-98).
- 96.3 - Elevation of Ordinary High Water Mark determined by Richard Koch - DNR.
- 98.3 - Flood elevation per R. Koch and Lynn Goldade, DNR, October 14, 1987.
- 100.3 - Flood protection elevation.

# KANGAROO LAKE

## FLOOD ELEVATION

- 99.81 - Bench mark elevation; 2" chisled square in concrete end wing on east end of dam; per Bill Marlett, DNR, September 16, 1982.
- 98.5 - 100-year flood elevation.
- 100.5 - Flood protection elevation.

# CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

Date: May 19, 1982

File Ref:

To: Jean Binsfeld - Lake Michigan District

From: Bill Marlett WRZ/5

Subject: Regional Flood Analysis for Kangaroo Lake, Door County

I have completed my analysis of the request that you had received on April 20, 1981, from Philip Woerfel, Door County Sanitarian, for establishing a regional flood level for Kangaroo Lake. The request was made as a result of a number of on-site waste disposal system applications (PLB 89 form) that had been made.

The necessary field data I had earlier requested (in a memo dated December 30, 1980, to Jim Sargent - DILHR), was received in a submittal from Mr. Lee Telfer dated April 14, 1981.

A HEC-1 computer model was used for determining a regional flood flow value into Kangaroo Lake and routing the resultant hydrograph through Kangaroo Lake to the dam. The discharge into the lake is 2,135 cfs and the discharge (after routing through the lake), at the dam is 109 cfs resulting in a regional flood elevation of 98.5 feet (PSC datum) at the dam.

If you should have any questions regarding the analysis, please call.

BM:sm

2067K