Detailed Information for Dam Lower Balsam Lake

Seq No	25	Field File No	48.17
Size	LARGE	NID	24
Popular Name		Former Name	

Location

County	Polk		
Latitude	45.448368	Longitude	-92.450256
Permitted PLSS	SENE1034N17W		

Owners

Type	Village	**Name**	Village of Balsam Lake

Waterbody

Drainage Basin (sq mi)	24.30		
Stream		**Impoundment**	
Local Name	BALSAM BRANCH	Local Name	BALSAM LAKE
Row and Official Name		Row and Official Name	
Navigable?	not determined	Size (acres)	2,054.00
When was navigability determined?		Maximum Depth (ft)	37.00

Regulation

Regulatory Authority	Wisconsin	Legal Status	Authorized (31.04)
Physical Status	On Landscape	Hazard Rating	Significant
Operational Status	Under Investigation - None	Low Head Dam Assessment	No
Compliance Status			
Ch. 31.19 Owner Inspection	Compliant	Ch 31.19 DNR Inspection	Compliant
NR 333 Standards	Required		
NR 333 Compliance Items			
EAP NR 333 Year	2010	IOM NR 333 Year	2010
Capacity NR 333 Year	2012	Stability NR 333 Year	1993
D/S NR 333 Year	2015		

Construction Characteristics

Normal Storage (acre-ft)	12,000.00	Max Storage (acre-ft)	22,300.00
Structural Height (ft)	38.00	Hydraulic Height (ft)	33.00
Crest Length (ft)	220.00	Spillway Type	Controlled
Discharge Through Principal Spillway (cfs)	600.00	Width/Diameter of Principal Spillway (ft)	4.00
Total Discharge Through All Spillways (cfs)	600.00	Total Width/Diameter of All Spillways (ft)	
Core Type	None	Core Position	None
Power Output (mW)	1.00		
Foundation Type	None	Foundation Certainty	
Structural Types	Gravity, Earth		
Sturcture Purposes	Hydroelectric, Recreation		

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Geomarks

Mark Seq No	Old Mark Id	Elevation	Datum	Status	Status Date	Location Description
18684		100	LD	Verified (Surveyed)	6/5/1918	BM 88 A is a standard bronze tablet marked "Railroad Commission of Wisconsin" set in concrete post five and one-half feet in length, bottom resting on gravel, top even with surface of ground, located 350 feet west of the dam at the outlet of Balsam Lake, about 100 feet east of the east line of MIlls Street and 20 feet from the shoreline. This benchmark is given an assumed elevation of 100.00 feet.

Water Levels

	Normal	Winter
Minimum	93.1 ft Datum: Local	92.6 ft Datum: Other Doc #: WP-92
Normal	94.3 ft Datum: Local	Not established
Maximum	94.3 ft Datum: Other Doc #: WP-92	Not established

Construction History

First Dam at Site 1860

Designer	Construction Firm	Completed (year)
		1916

Outlet Gates

No data found.

Inspection History

Inspection Date	Inspection Report Date	Inspection Type
5/28/2026	9/28/2026	Inspection by Owner/Engineering Consultant under Ch. 31.19(2)(ag)
9/15/2022	1/3/2024	Inspection by Owner/Engineering Consultant under Ch. 31.19(2)(ag)
7/15/2015	1/5/2016	Inspection by Owner/Engineering Consultant under Ch. 31.19(2)(ag)
7/17/2012	10/3/2012	Inspection by Owner/Engineering Consultant under Ch. 31.19(2)(ag)
6/11/2008	9/29/2008	Inspection conducted by DNR under Ch. 31.19(2)decennial
11/4/1999		Final inspection of repair/reconstruction/removal, (also for grants)
10/20/1997		Transfer Inspection
10/30/1986	3/30/1987	Inspection conducted by DNR under Ch. 31.19(2)decennial
6/30/1980		General Dam Inspection (Usually prior to 1986)
6/30/1980		Inspection for the purpose of setting or checking water levels
6/23/1965		General Dam Inspection (Usually prior to 1986)
6/23/1965	7/1/1965	Inspection for the purpose of setting or checking water levels
11/5/1963	11/13/1963	Inspection for the purpose of setting or checking water levels
8/18/1961	8/24/1961	Inspection for the purpose of setting or checking water levels
8/29/1950	9/11/1950	Inspection for the purpose of setting or checking water levels
6/24/1947	7/15/1947	Inspection for the purpose of setting or checking water levels
6/24/1947		General Dam Inspection (Usually prior to 1986)
4/17/1945	5/2/1945	Inspection for the purpose of setting or checking water levels
7/27/1944	8/9/1944	Inspection conducted under Ch. 31.19(3) complaint or (4) discretionary
7/14/1938	4/10/1939	Inspection for the purpose of setting or checking water levels
8/10/1937		General Dam Inspection (Usually prior to 1986)
8/10/1937	10/1/1937	Inspection for the purpose of setting or checking water levels
8/2/1926	8/2/1926	Inspection for the purpose of setting or checking water levels
4/10/1924		Informal Inspection to check on status or progress on work directives

6/5/1918	6/10/1918	Inspection for the purpose of setting or checking water levels
5/19/1914		General Dam Inspection (Usually prior to 1986)

Followups

Type of Followup	Due Date	Extension Date	Completion Date
Inspection, Operation & Maintenance Manual	12/05/2016	05/01/2027	
Emergency Action Plan	12/05/2016	05/01/2027	
Raceway/canal	12/31/2024	01/01/2028	
Animal burrows	12/31/2026		
Seepage/drainage	05/01/2027		
Benchmarks	01/01/2028		
Seepage/drainage	01/01/2029		
Powerhouse	12/31/2029		

Approvals

Approval Date	Approval Type
8/1/2010	Assignment of Hazard Rating
3/1/2010	Inspection, Operation and Maintenance Plan
2/1/2010	Emergency Action Plan
12/1/2001	Hydrology & Hydraulic Analysis
12/1/2001	Dam Failure Analysis
11/1/2001	Assignment of Hazard Rating
5/8/2000	Dam Transfer; Stat 31.185B
10/8/1998	Approval of Repair/Maintenance Work
11/1/1993	Hydrology & Hydraulic Analysis
11/1/1993	Dam Failure Analysis
11/1/1993	Stability Analysis
11/1/1993	Assignment of Hazard Rating
11/24/1920	Levels; Stat 31.02
7/1/1918	Levels; Stat 31.02

Orders

No data found.

Inspection Schedule

Inspection Year	Inspection Type
2028	DNR

Analysis

Analysis Seq No	Date	Type	Project	WIDNR Status	FEMA Status
21536	9/28/2011	Dam Failure Analysis	Balsam Lake Dam - Failure Analysis	Approved	NotRequired
1336	10/1/1978	Hydrology / Hydraulics Developed at a Dam		Approved	NotRequired
21534	8/15/2000	Dam Failure Analysis	Balsam Lake Dam - Dam Failure Analysis	Approved	NotRequired