

WATER TOUR POINTS OF INTEREST

- **Devils Lake City Dike/Embankment**

To continue to meet the appropriate combination of levee and dam safety standards, it was necessary to raise the existing embankments protecting the City of Devils Lake, North Dakota and extend the embankments to high ground. Previously, the embankments had been constructed to an elevation of 1,460 feet. The height required for the maximum pool elevation of 1,458 feet (where flows would begin out the natural outlet at Tolna Coulee) is 1,466 feet to meet dam safety standards, with areas of higher wave run-up being slightly higher. The embankment length has now been increased from approximately 8 miles to more than 12 miles.

Pump Stations

The project included five new pump stations constructed by the Corps and the North Dakota National Guard. These pump stations will pump the storm-water from the interior side over the embankments. They range in capacity from 5,000 gallons per minute to 312,000 gallons per minute.

Authority

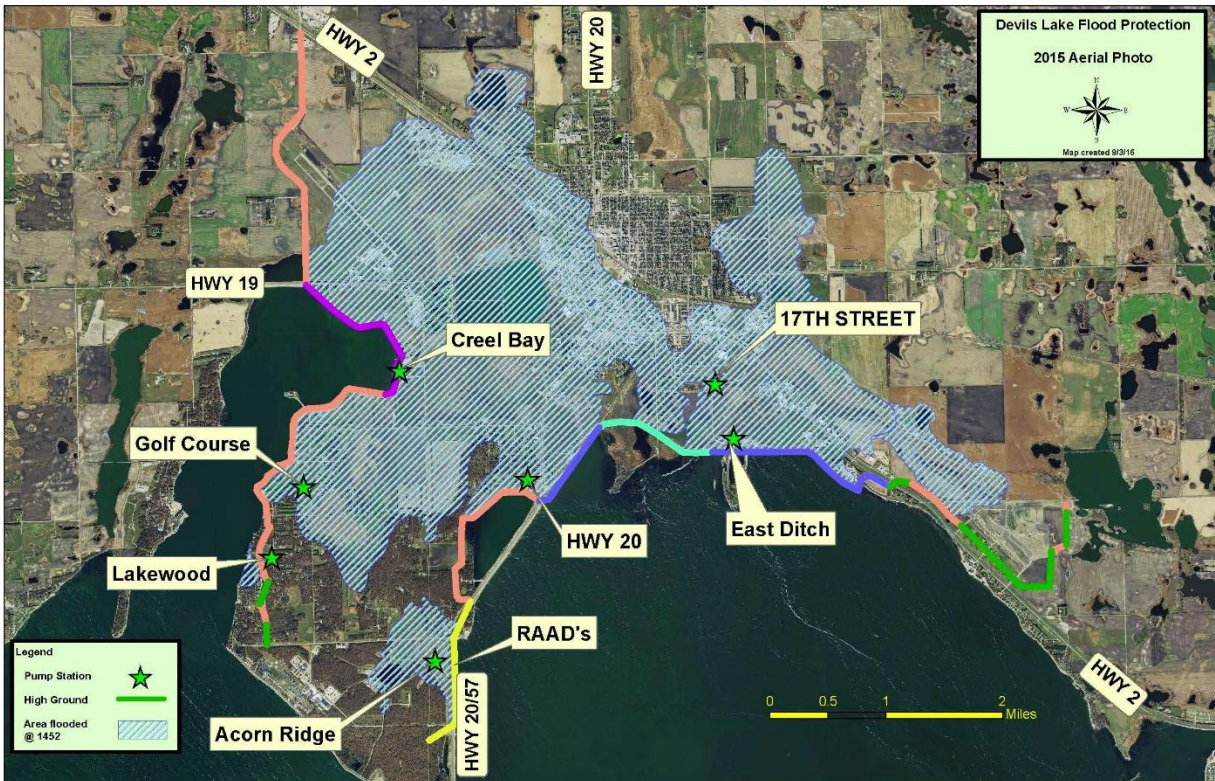
This project is authorized under the Flood Control and Coastal Emergencies Act. Funding for construction was included in the 2009 Emergency Supplemental Appropriations Act (Public Law 111-32) and approved in the project information report dated September 2009.

Fiscal

The construction project is currently estimated at approximately \$179.8 million. The construction is cost-shared 75-25 between the Federal government and the City of Devils Lake.

Through 2016, \$185.6 million in damages have been prevented by the project. The city is now protected to the maximum pool elevation. No additional embankment raises will be required. The City of Devils Lake will operate and maintain the project once all the construction and project documentation is complete.

MAP OF DEVILS LAKE DIKE – EMBANKMENT PROJECT

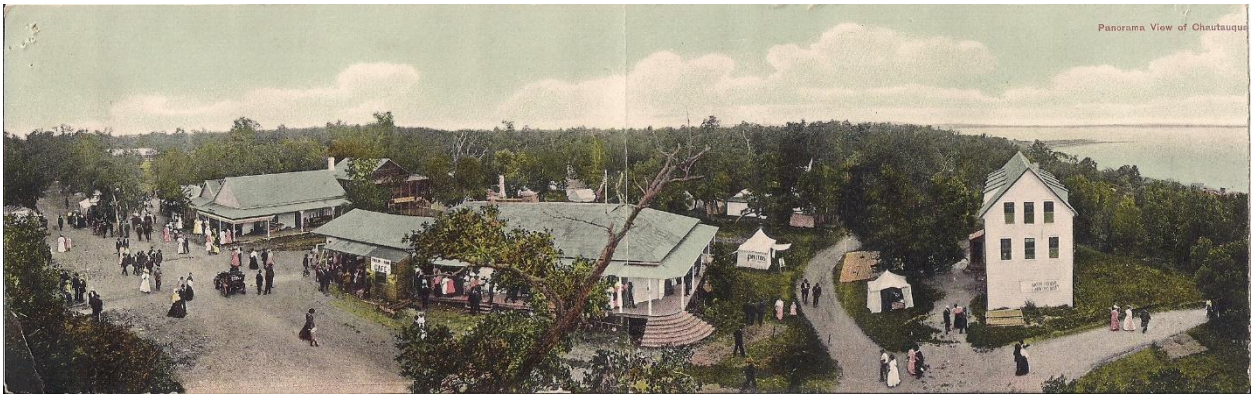


- **Lakewood/Historical Chautauqua Subdivision**

The Lakewood subdivision was home to the original Chautauqua grounds, where large crowds would gather every summer along the shores of Creel Bay to hear some of the most famous speakers in the country including William Jennings Bryan.



Aerial view of Chautauqua Grounds



Below is a picture of a narrow rail train used to transport people to and from the Chautauqua Grounds from Devils Lake.



Bathhouse – Lakewood Park (East side of Creel Bay)



Recent aerial view of Lakewood looking from both North & South



- **Camp Gilbert C. Grafton Camp Grafton Training Center (CGTC)** is a National Guard Maneuver Training Center operated by the North Dakota National Guard. CGTC is located 5 miles south of Devils Lake on Highway 20. CGTC is home to the 164th Regional Training Institute, the 136th CSS Battalion, and the 3662nd General Support Maintenance Company. Camp Grafton Training Center is located on the shores of Devils Lake and consists of 1,000 acres with numerous training opportunities, lodging, PX, and dining facilities.
- Today Camp Grafton is much different from its early days when its only flurry of activity occurred during the annual two-week encampment periods. Training is conducted year-round at Camp Grafton for the military, law enforcement, and other state agencies. 1985 the North Dakota Military Academy was moved to Camp Grafton from Bismarck. In 1996, the North Dakota Military Academy was reorganized into the 164th Regiment, Regional Training Institute (RTI). The RTI conducts year-round training in engineering subjects and NCO leadership courses that are offered to North Dakota National Guard members and active duty and reserve component soldiers and units from across the country. The RTI trains over 3,000 soldiers each year.

- **East Devils Lake Outlet**

Completed in June 2012 - Maximum discharge of 350 cfs - Intake on East Devils Lake - 1,446.3' is the minimum lake elevation that can be pumped - Approximate length of outlet 5.2 miles of 96" pipe - Maximum lift of $\approx 60'$ - Outlet releases into Tolna Coulee - Terminal structure with gravel filter.

- **Tolna Coulee Control Structure**

Location: The Tolna Coulee Control Structure is located at the outflow of Stump Lake on Tolna Coulee in Nelson County, North Dakota. The control structure is located on the lake upstream of the natural high point of Tolna Coulee. It is located about 25 miles SE of Devils Lake, North Dakota, and 100 miles NW of Fargo, North Dakota. Drainage Area: 3,840sq miles in the Devils Lake Basin, which, until the lake reaches a level of 1458' above sea level, is considered a closed sub-basin of the Red River of the North Basin.

Embankment: Type Earth Fill with Sheet pile core - Total Length 842 feet -

Control Structure: Spillway Type – Concrete - Length 142 feet total with eleven 2-foot piers. Bays 12 stop log bays, each 10 feet wide. Bays are numbered 1-12 from north to south. Max stage of 1458 feet. Min stage of 1446 feet. Each stop log is one foot high. Crest Stage of 46 feet: Natural High Point between Stump Lake and Tolna Coulee: Stage of 1458 feet. Elevation of Stump Lake: USGS Gage 05056665 Eastern Stump Lake nr Lakota, ND Definition of Overflow: Overflow occurs once the water starts to flow over the natural high point between Stump Lake and Tolna Coulee.