



# Illinois River Marseilles Dam Emergency Response

U.S. ARMY CORPS OF ENGINEERS

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## Location

Marseilles, IL

## State(s)

IL

## Congressional District(s)

IL-16

## Status

### Project Timeline

- Barge Incident – April 18, 2013 – Seven barges break loose and impact dam
  - Aftermath – Severe residential flooding, five Dam gates damaged (two inoperable), erosion of Earth Dike, inundation of equipment at Lock
- Barge Recovery (barge company) – April 25 to June 17, 2013
- Construction of Rock Dike – April 27 to May 15, 2013
  - Constructed to stop flow through inoperable gates
  - Allowed recovery of barges and installation of bulkheads
- Installation of Bulkheads – June 18 to June 27, 2013
  - Installed to block flow through inoperable gates
- Emergency raise of Earth Dike – May 30 to June 1, 2013
  - Installed to mitigate impact of Rock Dike on upstream river levels during high flow
- Detailed Dam Assessments – Summer & Fall 2013
- Permanent Dam Design – Fall 2013 to Summer 2014
- Installation of additional flood protection at headrace (city) – March 2014
- Award Permanent Dam Repair Contract – 23 September 2014
- Perform Permanent Dam Repair Construction – Fall 2015 through Spring 2017
- Permanent Earth Dike Design – 2016
- Award Permanent Earth Dike Repair Contract – Early 2017
- Perform Permanent Earth Dike Repair Construction – 2017 Construction Season
- All Dam and Earth Dike Repairs Complete – End of Calendar Year 2017



## Description

- Marseilles Lock is 244.6 miles above the confluence of the Illinois River with the Mississippi river at Grafton, Illinois, at the foot of Bells Island. Marseilles Dam is 2.5 miles upstream of the lock at the head of Bells Island.
- The lock and dam is located southwest of Marseilles, Ill., near Illini State Park. The Marseilles Canal, adjacent to the left bank of the Illinois, extends from the dam to the lock.
- The lock is 110 feet wide by 600 feet long. The maximum lift is 24.5 feet with an average lift lower than 24 feet. It takes an average of 15 minutes to fill the lock chamber; 10 minutes to empty it.

Project Components

Updated on 2016-Aug-30

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- Dam: Concrete structure with eight Tainter gates between Bells Island and right bank
- Headraces: Gated structures controlling flow to hydropower facility (not currently in use)
- Earth Dike: Earthen embankment extending upstream from the Headraces along the right bank
- Lock: Located downstream of Dam, via canal between Bells Island and left bank

## **Additional Project Information**

### **Project Scope**

- **Phase I (Temporary Repairs) - (Completed)**
  - Dam Repairs
    - Construction of Rock Dike / Work Platform
    - Fabrication and installation of Bulkheads
    - Repair of erosion at Dam and Island
    - Complete assessment of Dam Structure
  - Earth Dike Repairs
    - Filling in areas eroded from the overtopping event
    - Removal of large trees
    - Placement of HESCO bastions and embankment to raise dike
- **Phase II (Permanent Repairs) - (2014 – 2017)**
  - Dam Repairs
    - Trunnion Anchor Replacement on one pier (complete)
    - Repair 2 Tainter Gates (complete)
    - Replace 3 Tainter gates
    - Repair Upstream Pier Bullnoses
    - Remove Rock Work Platform (complete)
  - Earth Dike Repairs
    - Removal of HESCO Bastions
    - Removal of all woody vegetation
    - Removal of encroachments
    - Re-establish dike cross-section, working within existing easement

### **Project Issues / Areas of Emphasis**

- Continue Monitoring
  - River Levels
  - Earth Dike
- Maintain Communication
  - City
  - Navigation Industry

### **Major Work Item (This Fiscal Year)**

Administer and closeout construction contract for Permanent Dam Repair. Finish design and award construction contract for Permanent Earth Dike Repair.

### **Major Work Item (Next Fiscal Year)**

Complete construction and closeout contract for Permanent Earth Dike Repair.



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