



**2020 Near Term Flood Mitigation Plan
City of Detroit – Lower East Side (LES)**

March 13, 2020



Project Scope

Jefferson Village & Jefferson Chalmers

2019 Q4 Wettest on Record
February 2020 Levels are 1.25'
higher than February 2019

United States Army Corp of
Engineers Predicts River Level
1-2 Feet Higher in Summer 2020




Will Require Installation of
More Than 3x Measures of 2019

Installation by General Services
Department (GSD) and USACE



Proposed Flood Mitigation Measures

Neighborhood Scope

Category	Photo	Neighborhood	Location	Approximate Length
Bladders/ Barriers		Jefferson Chalmers	Fox Creek Islands	14,000'
		Jefferson Village	Harding Canal	1,000'
Sandbags		Jefferson Chalmers	Fox Creek Islands	3,500'
Berms		Jefferson Village	Harding Canal	1,500'

Tiger Dam Deployment

Comparable Projects – Winnipeg, Manitoba Canada



Started Using Tiger Dams In 2004-2005 Along Red River Floodway

Annually Install Miles Along Rivers That Discharge Into Lake Winnipeg & Surrounding Areas

Used Under High Pressure & Heavy Streams To Divert Flood Water

Ideal for Emergency Deployment & Proactive Measures

Can Maneuver Around Structures & Other Obstacles

Barriers Can Freeze and Withstand Ice Induced Flooding

Tiger Dam Water Bladders

Example Uses



Tiger Dam Water Bladders

Example Uses



Tiger Dam Water Bladders

Example Uses



Challenges to Installation

Building, Safety Engineering and Environment Division (BSEED) to address impediments

Impediments include Trees, Brush, Fences, Buildings, and Debris

BSEED to Contact Residents With Blight Violations Before Issuing Tickets

GSD and their Contractor will then Remove Any Remaining Impediments Prior to Install

Project Milestones



Project Milestone	Week of
BSEED Clean-up Notifications Distributed	March 16
Begin Barrier Installation	March 30
Complete Barrier Installation ¹	May 1
Remove Temp Measures ²	September 7

¹Additional Sand-Bagging May Occur As-Needed Throughout Summer

²Based on Anticipation of Receding Water Levels



THANK YOU

A: 28 W. Adams, Suite 1200, Detroit, MI
T: 313.962.4442
W: www.giffelswebster.com

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⋮  [@giffelswebster](https://twitter.com/giffelswebster)