

# FM Diversion Plan B Update

# Why did the Project change?

- The Richland/Wilkin County JPA filed a lawsuit against the U.S. Army Corps of Engineers in 2013. The lawsuit was later joined by the Fargo-Moorhead Diversion Authority and by the State of Minnesota.
- While the majority of claims were dismissed, an injunction stopping construction was ordered in Sept., 2017

"It is time for all parties to work together to find common ground."

- Chief Judge John A. Tunheim

# Listening & Gathering Input



#### September 2017

►Gov. Burgum and Gov. Dayton meet in Moorhead to discuss the flood protection



#### Governor's Task force assembled

- ▶ Five meetings between Oct. and Dec. 2017
- ►Wide geographic representation



#### **Technical Advisory Group**

- ► Diversion Authority, MDNR, USACE, and R/W JPA engineer
- ► Further analysis and iteration of unresolved issues from the Task Force



#### **Policy Group**

- ► Leadership from the USACE, MDNR, Diversion Authority, and R/W JPA
- ► Held four meetings



# Governors' Task Force

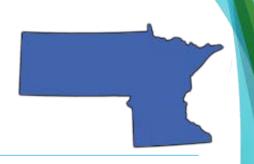


#### Governors' Task Force



- Purpose: To develop design principles and conceptlevel engineering solutions to achieve balanced flood risk management
- Key Parameters for the Task Force
  - Find solutions within the parameters established by applicable Minnesota, North Dakota and local law.
  - Maintain federal authorization and associated funding for permanent flood protection...

#### Task Force Consensus Items



- ► Utilize full Period of Record hydrology
  - ▶100-yr flood = 33,000 CFS
- ► Allow control of flood water flows through town to 37-feet during a 100-yr flood event
- ► New Western Tie-back Levee alignment in North Dakota
- ▶ Add an Eastern Tie-back Levee alignment in Minnesota
- ► Distributed storage is valuable for long-term risk management; however, it is not a component of the near-term Project that needs to provide 100-year flood protection for the F-M Metro

Governors' Flood Task Force

# Thank you for your service

Front Row (L to R): Bernie Dardis – Greater North Dakota Chamber Board Chair, Tami Norgard – Natural resources attorney, Tim Fox – Former Wilkin County Attorney, Jenny Mongeau – Clay County Commissioner, Del Rae Williams – Mayor of Moorhead, MN, Gov. Mark Dayton – Governor of Minnesota, Gov. Doug Burgum – Governor of North Dakota, , Heidi Durand – Moorhead City Council member, Barb Naramore – Minnesota Department of Natural Resources Assistant Commissioner, Mark Anderson – Treasurer of Buffalo-Red Watershed District

Back Row (L to R): Curt Johannsen – Mayor of Hendrum, MN, Ken Vein – Grand Forks City Council member, Craig Hertsgaard – Richland County farmer, John Strand– Fargo City Commissioner, Tom Landwehr – Minnesota Department of Natural Resources Commissioner, Jason Benson – Cass County Engineer, Steve Jacobson – Norman County Commissioner, Nathan Berseth – Richland County Commissioner, Joel Paulsen – Moorhead City Council member, Ron Bergan – Fargo business leader and entrepreneur



"My office will continue to work in partnership with Governor Dayton toward finalizing a permittable project..."

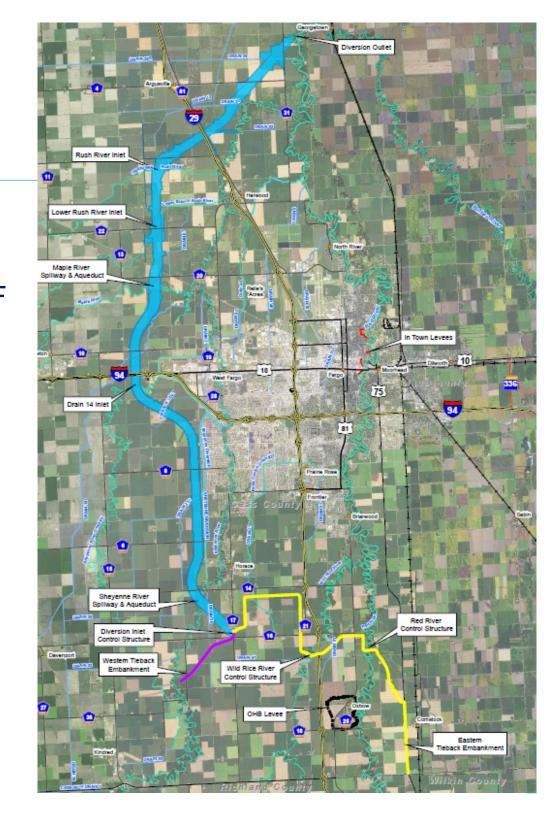
- Governor Burgum (ND)

"The Diversion Authority now has the responsibility to take all of these views and recommendations and combine them into a permittable application to the Minnesota DNR."

- Governor Dayton (MN)

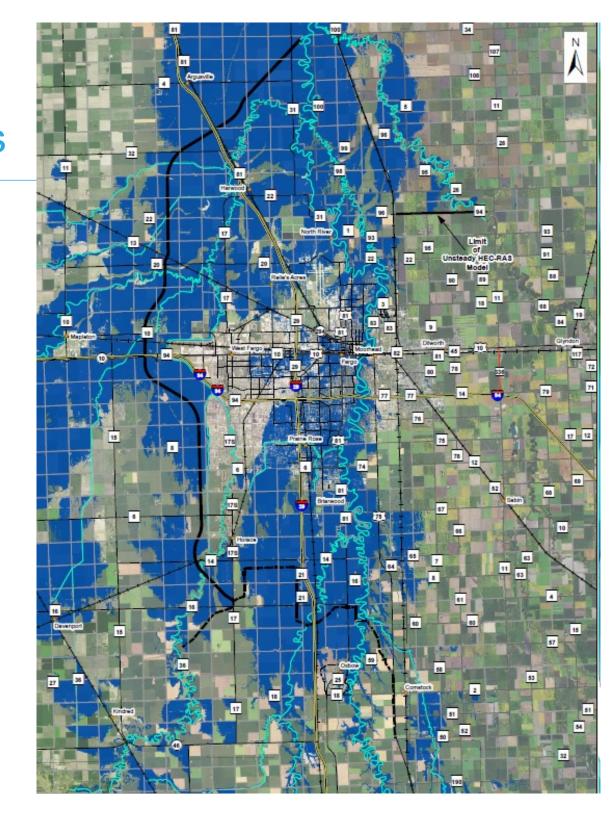
#### What is Plan B?

- ► 100-year Flood Protection Minimum
  - ► Some features designed to PMF (Probable Maximum Flood) as required by State and Federal Dam Safety Requirements
- **▶** Diversion Channel
- ► Southern Embankment and Control structures
- ► Temporary Staging of Flood Waters Upstream to Prevent Downstream Impacts
- ►In-town Levees through Fargo-Moorhead



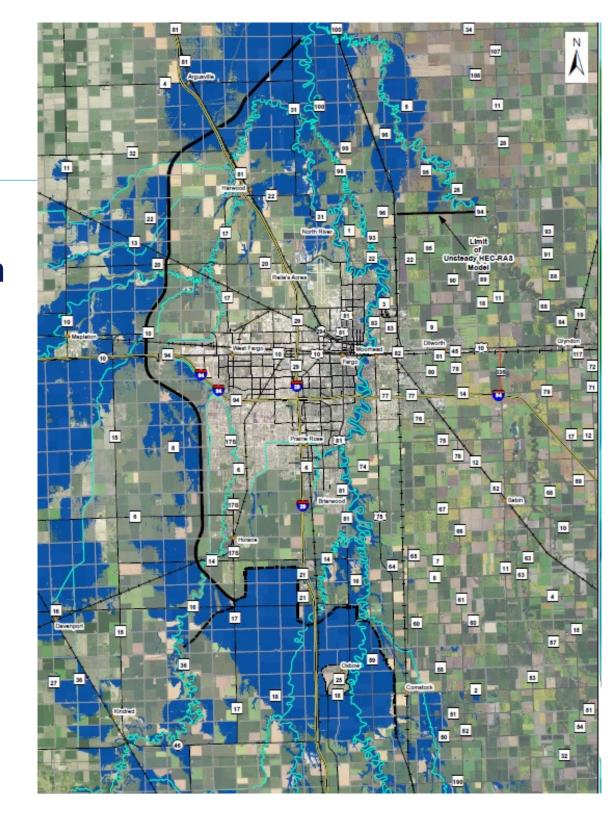
### **Existing Conditions**

► 100-year floodplain shown in Blue



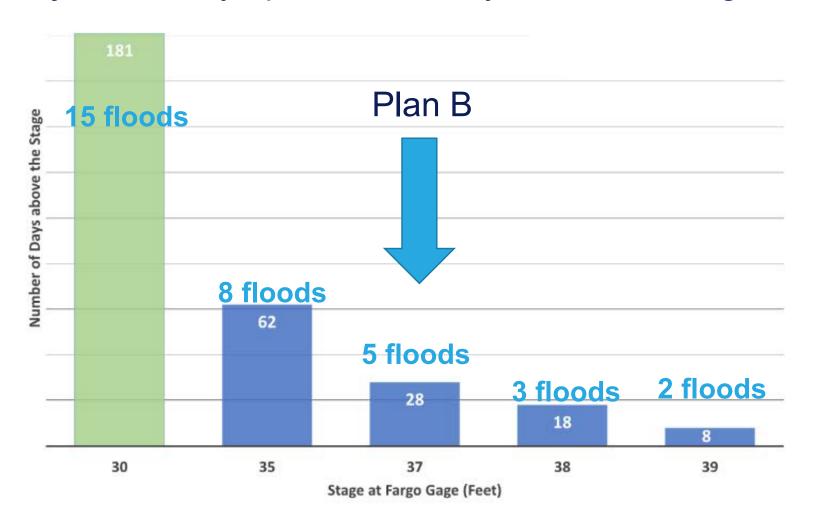
## With Project

► 100-year floodplain with project shown in Blue



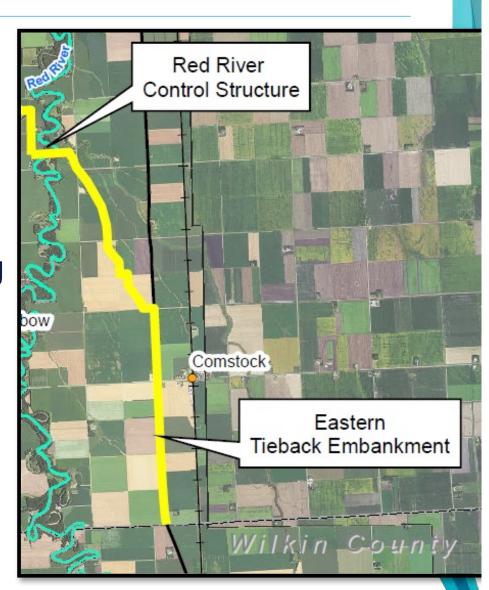
### Increased flow through Fargo-Moorhead (37-feet)

- ▶ Design will allow 37-feet through town (up from 35-feet)
- ▶ Project will only operate 1 in 20 years, on average



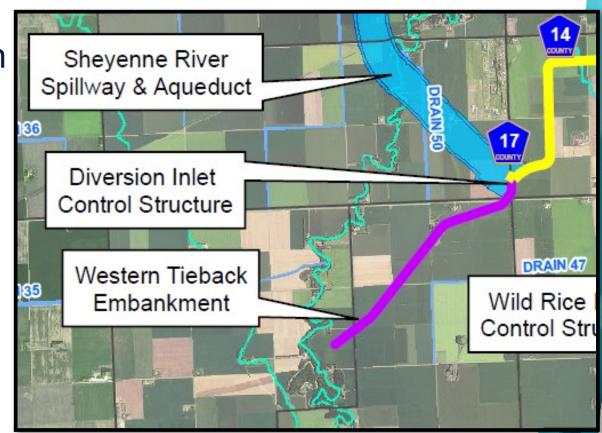
#### Eastern Tie-Back Levee

- Limits the extent of impacts in Minnesota
  - ► Eliminates any impacts to the City of Comstock, thus eliminating the need for a ring levee
  - ► Eliminates the need to raise Hwy 75 or the BNSF railroad
  - ►Impact to organic farms has been reduced nearly 90 percent from an estimated 2,900 acres to 300 acres



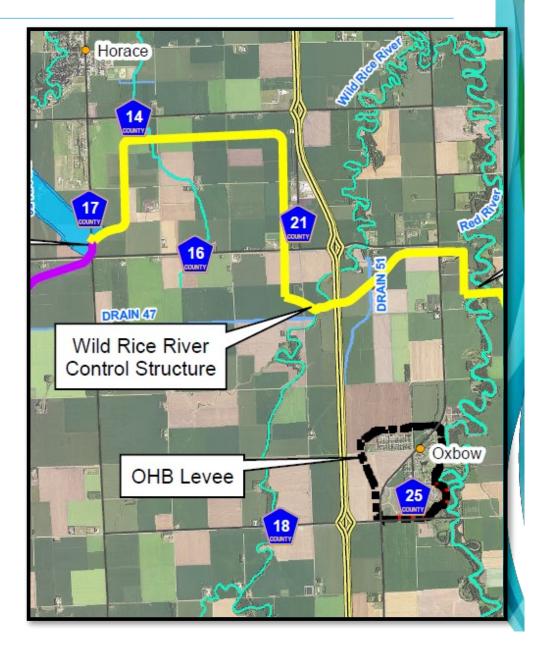
#### Revised Western Tie-Back Levee

- ► Shifts the western tie-back levee south and west from Horace
- ► Helps balance the impacts between North Dakota and Minnesota
- ► Reduces the impacts to Richland and Wilkin counties



### Moving the Southern Embankment North

- ► Move the southern embankment north in balances the impacts between ND and MN
- ► Reduces the impacts to Richland and Wilkin counties
- ►Removes 4 of 11 cemeteries from the impacted area

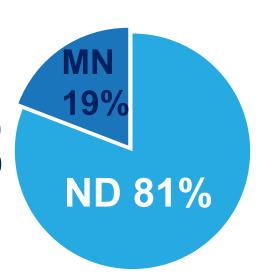


## Balanced Impacts between MN and ND

#### PRE-TASK FORCE

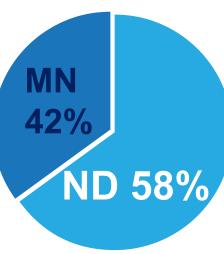
PROTECTED ACRES

- ND = 47,100
- MN = 11,000



STAGING AREA ACRES

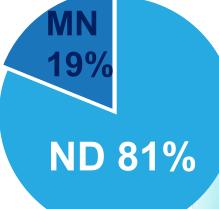
- ND = 20,700
- MN = 14,800



#### **PLAN B**

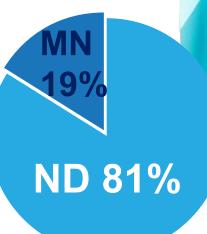
PROTECTED ACRES

• ND = 41,200MN = 9,500



STAGING AREA ACRES

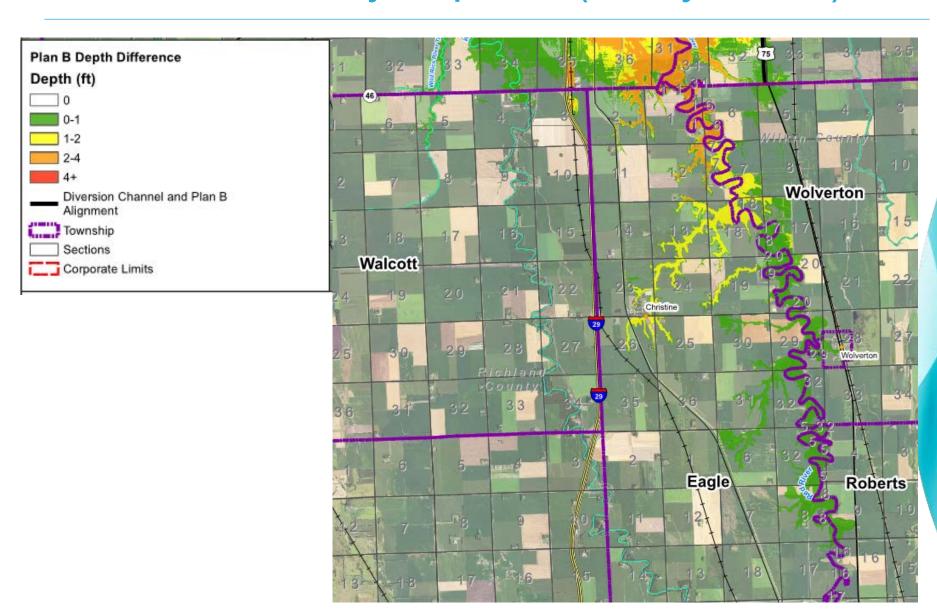
- ND = 22,600
- MN = 5,400



## Richland County Impacts (100-yr flood)

	Pre-Task Force Project Impacts	Plan B Impacts	Change
Staging Area Total Area (Acres)	4,387	2,783	(1,604)
Staging Area Additional Area (Acres)	1,124	596	(528)
Total Impacted Residential Structures in Staging Area	3	2	(1)
Newly Impacted Residential Structures in Staging Area	3	2	(1)

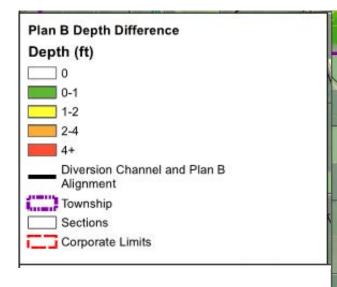
## Richland County Impacts (100-yr flood)

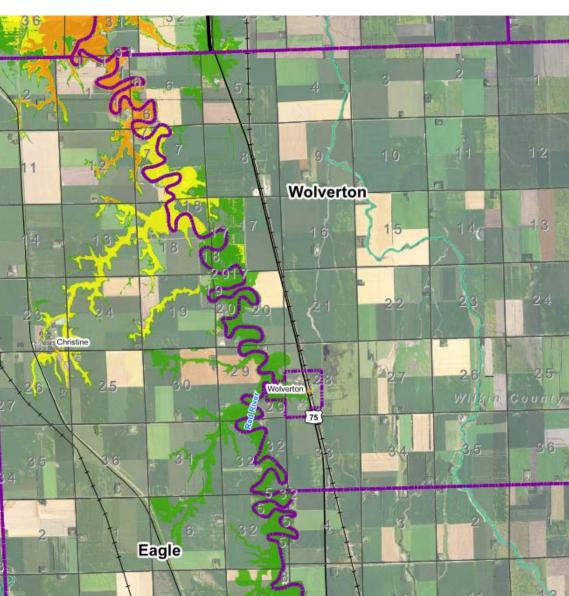


## Wilkin County Impacts (100-yr flood)

	Pre-Task Force Project Impacts	Plan B Impacts	Change
Staging Area Total Area (Acres)	2,551	1,407	-1,144
Staging Area Additional Area (Acres)	1,391	385	-1,006
Total Impacted Residential Structures in Staging Area	5	2	-3
Newly Impacted Residential Structures in Staging Area	3	0	-3

## Wilkin County Impacts (100-yr flood)





# Community Outreach

# Plan B Presentations and Information Distribution

- ▶ Clay, Cass, Richland, and Wilkin Counties
- ►Cities of Fargo, Harwood, Horace, Oxbow, Reiles Acres, and West Fargo in ND
- ▶ Cities of Moorhead, Dilworth, and Comstock in MN
- ► Townships:
  - ► Barnes, Berlin, Harwood, Mapleton, Pleasant, Raymond, Reed, Stanley, and Wiser in ND
  - ► Holy Cross in MN
- ▶ Buffalo Red River Watershed District
- ▶ Cass County Joint Water Resource District

## What's Next

#### **Process**



September 2017



Task Force assembled



Technical Advisory
Group



Policy Group

**Permit Submittal** 

Community Outreach

Public Comment period as part of Permit Review

#### **Technical & Financial**

Permit and Mitigation Plan Review

**New Cost Estimate** 

Funding and Financial Planning

Flowage Easement Valuation Study

"Micro-siting" of Alignment



# **Financial Summary**

# **Financial Overview**



\$570 Million

(Currently 26%)

#### State of MN

\$43 Million (proposed)

(Currently 2%)

#### Federal Government

\$450 Million

(Currently 20%)

#### Unknown, Additional Costs

Additional Cost from Potential Project Changes

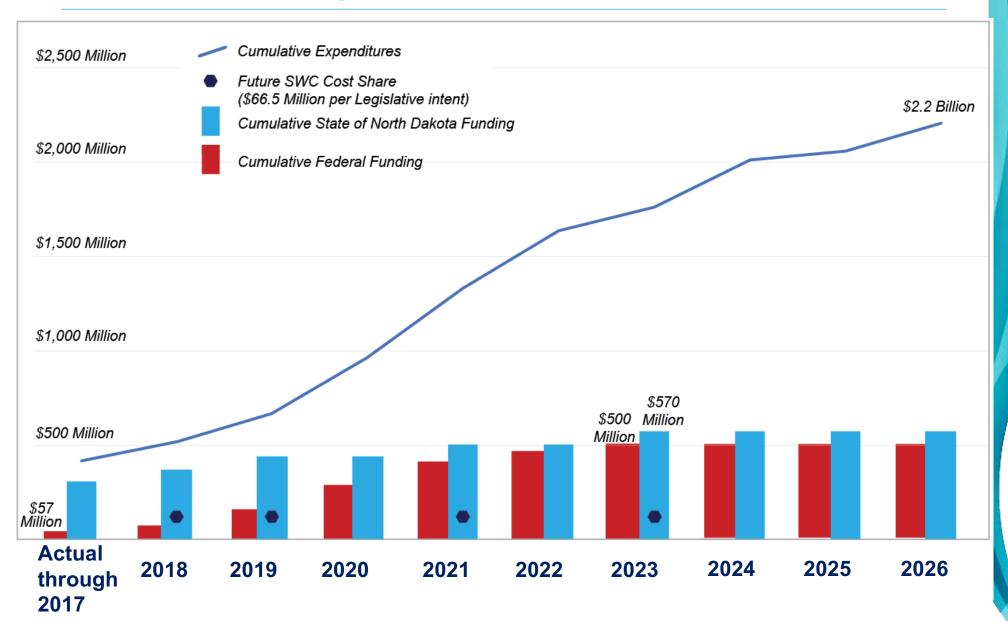
# Local Cass County & Fargo

\$1.1 Billion

(Sales Tax proceeds)

(Currently 52%)

# Forecasted Cumulative Expenditures and State Funding



# 2018-2019 Priorities

- ▶ Resolve Litigation
- Minnesota and North Dakota Permitting
  - ► USACE and DNR Environmental Clearances
  - ▶ Resume Land Acquisition
  - ► Advance P3 Procurement
- ▶ Develop New Cost Estimate and Financial Plan
- ► Flowage Easement Valuation Study (Phase 1)
- ▶ Continue In-town Construction