An aerial photograph showing a large area of agricultural land that has been flooded. The water is a muddy brown color, covering most of the fields. A river or stream flows through the center of the image, with some green vegetation visible on the banks. The overall scene depicts significant flood damage to the land.

# **Bad River Band of Lake Superior Chippewa**

**Flood Damage  
July 2016**

# OUTLINE



**Aerial Photographs**

**Damage Photos**

**Transportation Impacts**

# AERIAL PHOTOGRAPHS



**Bad River/Old Odanah Community/US 2 – Completely Flooded**

***Bad River Flood Damage – July 2016***

# AERIAL PHOTOGRAPHS

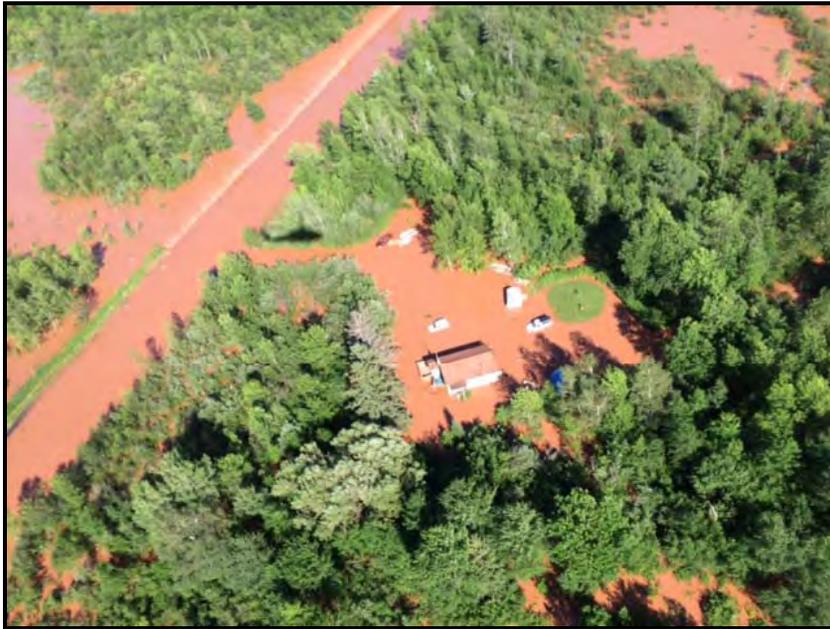


**Old Odanah Community/US 2**



**Bad River Reservation/US 2**

# AERIAL PHOTOGRAPHS



**Bad River Reservation/US 2**



**Bad River Reservation/Kakagon**

# AERIAL PHOTOGRAPHS



**Odanah/US 2 over Denomie Creek**



**Bad River Reservation**

# AERIAL PHOTOGRAPHS



*Bad River Flood Damage – July 2016*

# DAMAGE PHOTOS



**Caville Road**



**Kinninnic Road**



**Caville Road**



**Maple Street**



**Maple Street**



**Old Odanah**



**Boat Landing**

# DAMAGE PHOTOS



Washout making road impassable



Shoulder aggregate loss



Debris on upstream side of bridge

## **Government Road**

**15.2 miles long  
Paved/Gravel road  
Full time residents  
Access to thousands of  
acres of land**



Approach/Wingwall erosion

# DAMAGE PHOTOS



Major erosion/washout



Major erosion/surface loss

**Elm Hoist Road**  
7.2 miles long  
Gravel road

Access to thousands of acres of land



Erosion under abutment



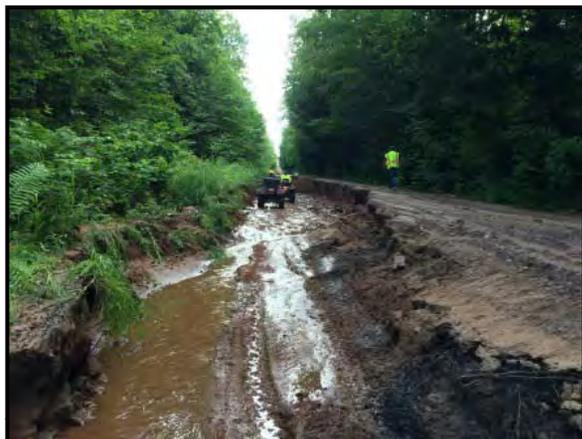
Major erosion/impassable



Erosion under abutment



## DAMAGE PHOTOS



Major erosion/washout



### **Graveyard Creek Road**

3.0 miles long

Gravel road

Access to Lake Superior and critical  
hunting and gathering land



Major erosion/washout



Drainage failure/erosion



Complete road erosion

*Bad River Flood Damage – July 2016*



# DAMAGE PHOTOS



Approach washout at bridge



Multiple major washouts



Debris removal

## Potato River Road

6.8 miles long

Gravel road

Access to thousands of  
acres of land



Debris removal

Note – We still have not  
seen the entire road  
because of the damage  
and limited access



Surface loss/reconstruct ditches

# DAMAGE PHOTOS



**Complete washout**



**Complete washout**

**Lake Road  
3.7 miles long**

**Gravel road/Full time residents  
Access to thousands of acres of land**



**Surface loss**



**Slope Erosion**



**Surface loss**



## DAMAGE PHOTOS



**Caville Road – significant erosion**



**Birch Hill Road – Replace culvert**



**Pedestrian Trail – complete loss**



**Wisconsin Avenue**



**Falls Trail**



**Miller Road**

# TRANSPORTATION IMPACTS



- **US 2 closed Jul 11-16**
    - Now open (with detour for passenger vehicles only)
    - DOT planning Jul 22 to open for commercial vehicles
  - **HWY 169 remains closed**
  - **HWY 13 remains closed**
- 
- **BIA/Tribal/Town roads within reservation**
    - 43.3 miles of complete closure (no access)
    - Approx . 20 miles of damaged roads with limited access
    - Does not include State or County Roads
  - **BIA Bridges (7 Total)**
    - 4 Bridges open to traffic
    - 2 Bridges closed with approach failure
    - 1 Bridge unknown (remains inaccessible - Potato River Brd)
  - **Town Bridges**
    - 2 Bridges closed with approach failure
  - **Initial est of \$2.6 M damage Bad River Rds (BIA/Tribal/Town)**