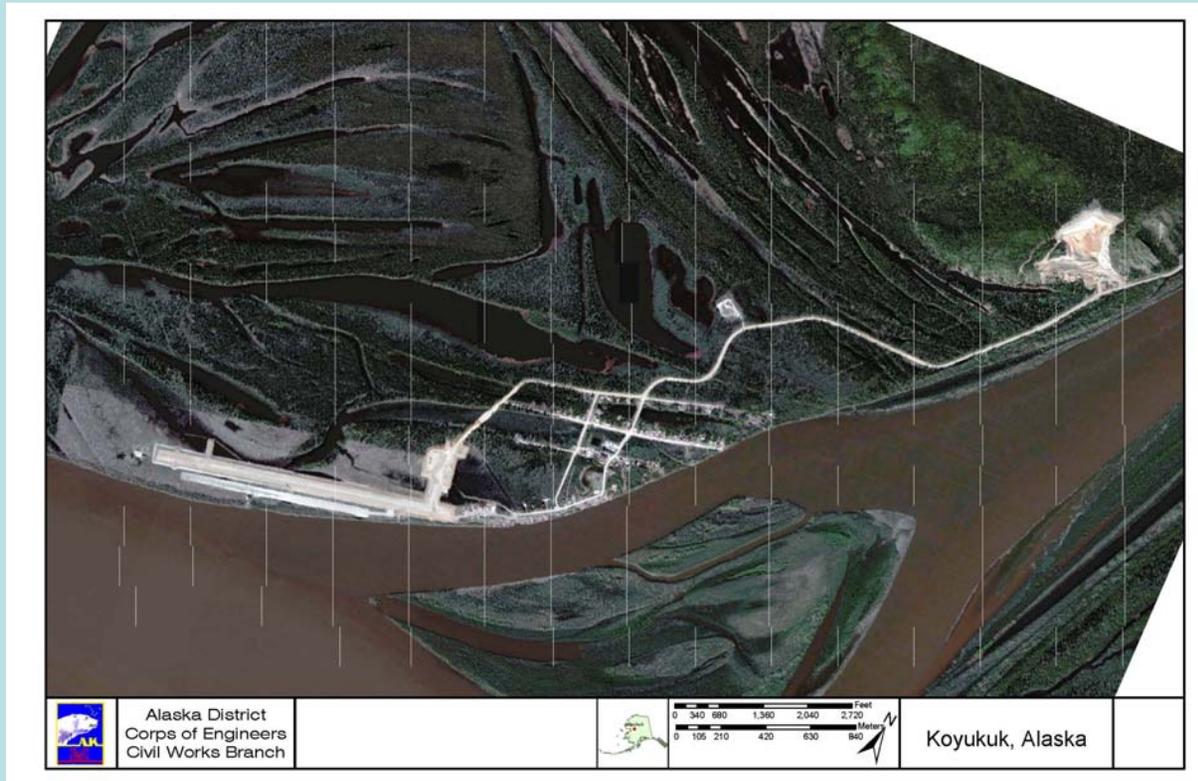


# Community of Koyukuk



## Erosion and Flood Scoping Plan

# How erosion impacts the village:

- North bank of the Yukon River on the inside of the small island
- The island never existed (formed in 1940s)
- Elders remember playing hardball on it when it was just a sandbar



# Erosion Problems



## History:

- Erosion problem dates back to 1960s
- About 30 homes, a BIA school, a church, a store, and two community halls that was lost to erosion

- Between 1938 and 1990 the community lost approximately 200 ft. of riverbank.



# Erosion and Flooding

- Erosion is caused by high water, breakup and flooding
- The average amount of riverbank lost is 4 ft. per year
- Today there are 3 homes within 80 ft. of the riverbank
- An old cemetery site is also threatened and should be relocated



## 1994 Erosion

- Community didn't flood but had significant erosion due to rainfall
- Flooding upriver in Allakaket, Hughes, Alatna
- Several homes fell into the river and a couple had to be relocated

# Impacts of Flooding

- Entire village is located in the floodplain
- Documented floods occurred in 1928, 1939, 1963, 1964, 1971, 1981, 2001 & 2006
- Flooding occurs during spring break up and recalled happening during heavy snowfall and extreme cold weather that resulted in thick river ice.
- Evacuation of elders, children and expectant mothers in 2006

## Immediate Threats

- Water supply at risk of being contaminated
- The water plant has significant floor damage that holds the community water tank and is in danger of falling through the floor
- Fuel spills and road damage
- 2006 flood 6 homes got damaged



# Conclusion

## Immediate and long-term solutions

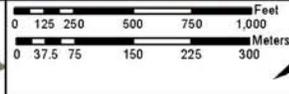
- U.S. Army Corp of Engineers is completing an initial erosion assessment of the community
- Some of their short-term recommendations is to build a barrier in the low areas to prevent damage during minor floods
- Also recommended build up Cemetery Road in case of an emergency, which will be needed to evacuate families
- Their going to recommend that Koyukuk goes into the Phase II feasibility planning stage
- The community is in agreement about relocating to a site selected within two miles of the village
- Koyukuk Tribal Council owns the selected site that was transferred from the village corporation under 14(c)(2) selection
- We have a new 2000 ft airport built above the floodplain
- New power plant bulk fuel facility built above the floodplain
- We need a relocation zoning plan for the new site
- Currently developing the Comprehensive Community Plan



Alaska District  
Corps of Engineers  
Civil Works Branch

Predicted and Historical Shorelines

Years	1972	1990's	2006	2016	2026	2036	2046	2056



Koyukuk, Alaska