

# Climate Change Impacts

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# Kivalina's Story

- History of Kivalina
- Climate Change Course of Events
- Mitigation Measures Taken
- Adaptation to changes
- Village preferred outcome

# History of Kivalina



# Kivalina

- Established in early 1900s
- School established in 1909
- Alaska became a State Jan-1959,
- City of Kivalina established 1969
- New school built in 1975
- Current population of 400



# Recent Climate Change Impacts



# Clearly, we needed help





# State and Local Borough efforts



# Homes losing foundation





One month later



# One home at the south channel



# 2008/2009 Changes





# Changes con't





# Changes con't





## **Wulik River Bank Erosion 2009**

This is Mike Brubaker in the crevice of the river bank erosion. Mike says he can see as far as 50 ft within the crevice at this point.



# Adaptation to changes



# Adaptation to changes con't





# Adaptation to changes con't



# Village Preferred Outcome

- New village site 3 miles south of Kivalina



# Not that easy

- Village spent 15 years planning, studying and working with AK Corp. of Engineers only to have ACoE say the site is not feasible due to ice rich foundation and its location is within the 100 yr flood plain. ACoE suggested other sites to the City of Kivalina that would take the village away from the Wulik River. The Wulik River provides drinking water and also fish year round for the people of Kivalina.

# So,

- The State of Alaska did another study this past year to determine what route to take with the City of Kivalina and will provide a salaried position in Kivalina for 3 years to develop another plan. In the meantime, the Native Village of Kivalina worked with Bureau of Indian Affairs Indian Reservation Roads to develop a roads inventory which includes an escape route from the spit of land if necessary.



## **Why we prefer to stay close to the current site**

We feed our families year round from the foods we harvest beginning in the spring until late fall.

# June harvest





# More reasons to stay close



And we'll claim victory





# Questions?

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