

Tribal Riparian Restoration in Arizona  
**Ak-Chin Indian Community's  
Riparian Restoration Projects**



Indigenous Perspectives on Sustainable  
Water Practices Conference  
Wild Horse Pass, Chandler, AZ  
June 10, 2015

# 2009 to 2013

## Non-Point Source Pollution Control

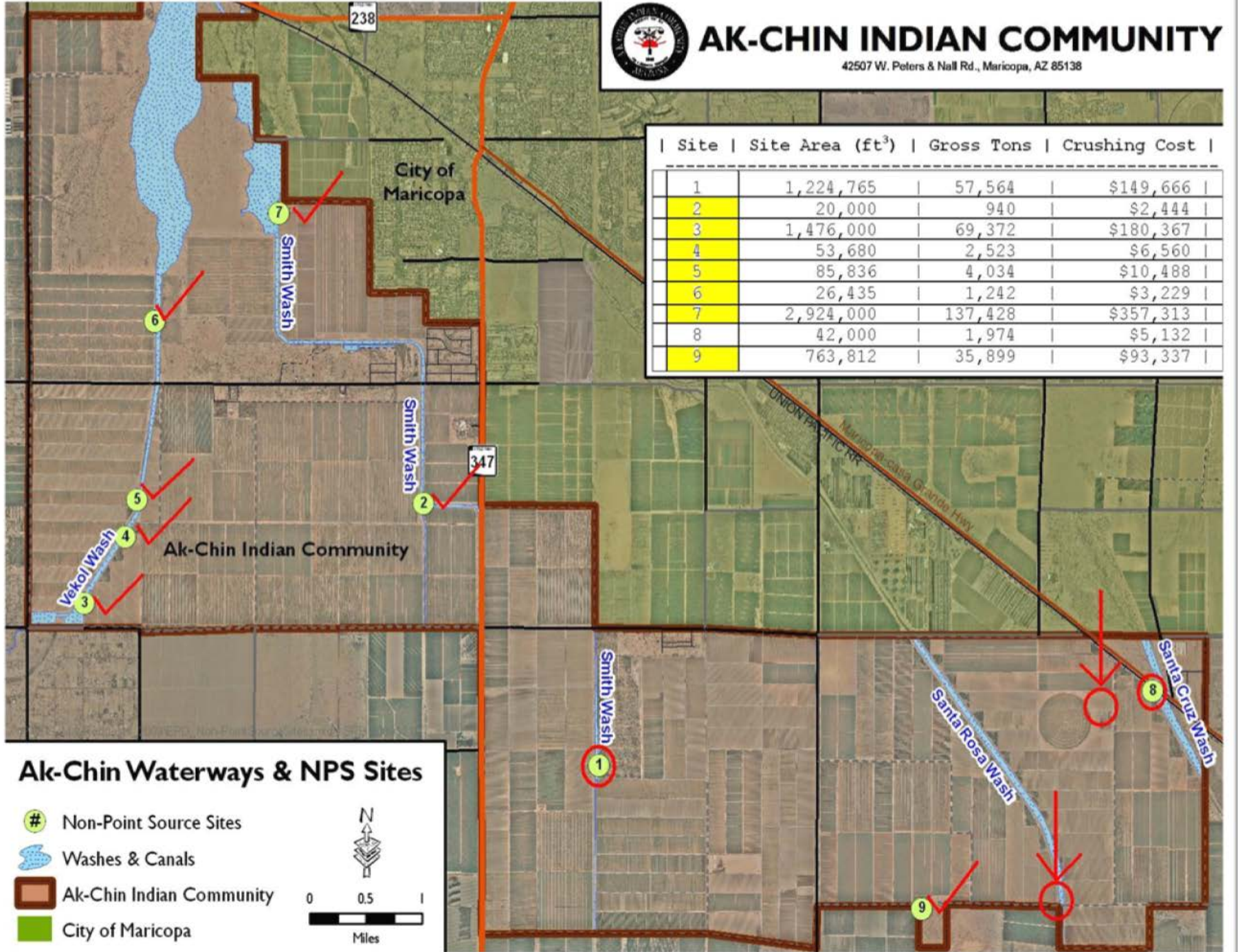
- 4 washes on the Ak-Chin Indian Community within the Santa Cruz Watershed
- Debris including concrete/cement impeding and hindering the washes (diverting flows, changing water quality – alkalinity & salts)
- Approx. 311,000 tons of debris
- 9 separate locations identified



# AK-CHIN INDIAN COMMUNITY

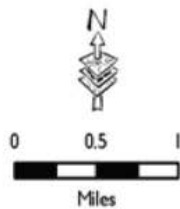
42507 W. Peters & Nail Rd., Maricopa, AZ 85138

Site	Site Area (ft <sup>3</sup> )	Gross Tons	Crushing Cost
1	1,224,765	57,564	\$149,666
2	20,000	940	\$2,444
3	1,476,000	69,372	\$180,367
4	53,680	2,523	\$6,560
5	85,836	4,034	\$10,488
6	26,435	1,242	\$3,229
7	2,924,000	137,428	\$357,313
8	42,000	1,974	\$5,132
9	763,812	35,899	\$93,337



## Ak-Chin Waterways & NPS Sites

- # Non-Point Source Sites
- Washes & Canals
- Ak-Chin Indian Community
- City of Maricopa





# Washes Before Clean Up



# After Clean Up





# Crushing Concrete



# Crushed Concrete for Road Bed / Dust Control







# Ak-Chin Indian Community Wetland Projects













**Barrier Installation & Monitoring**





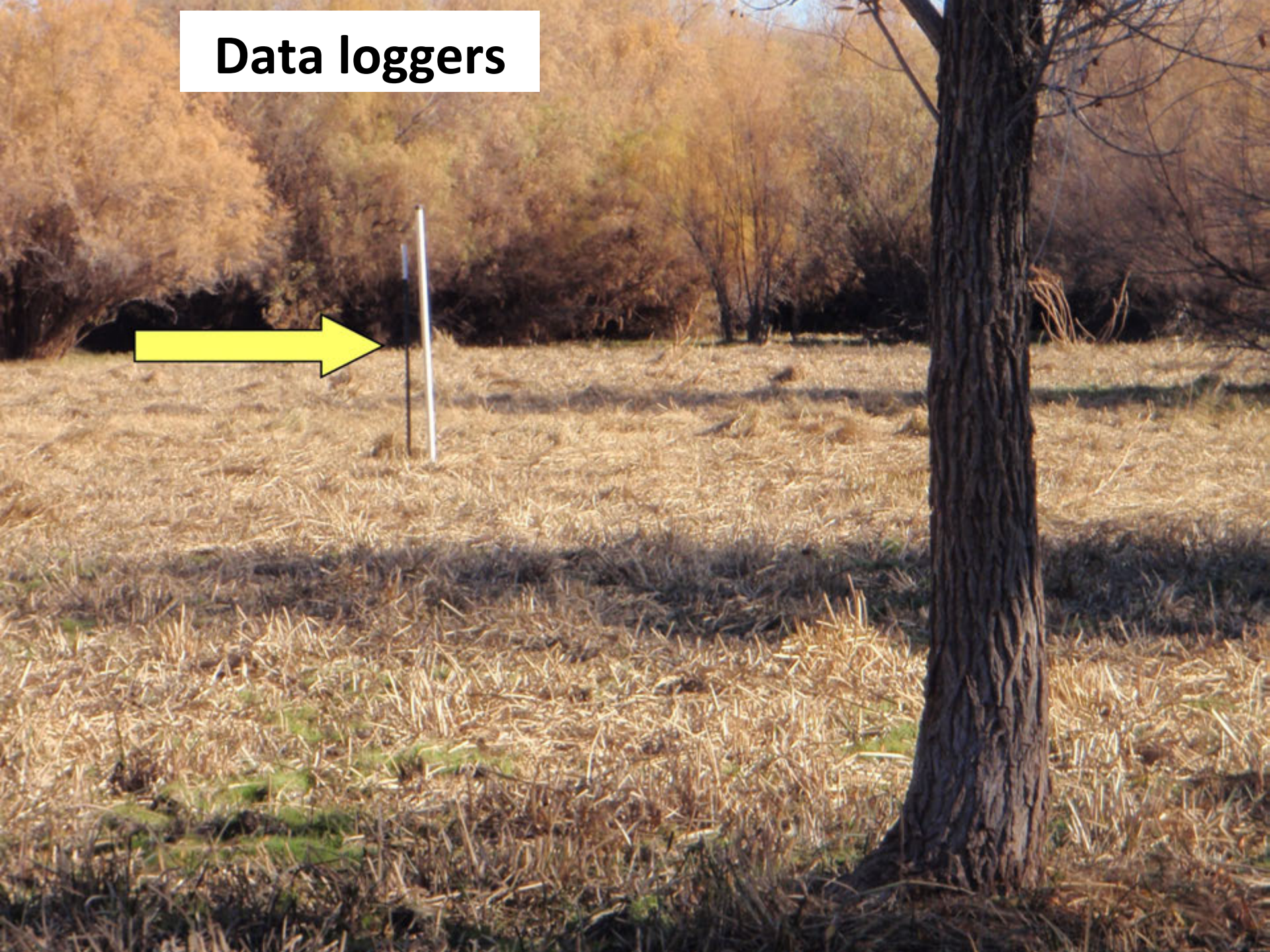
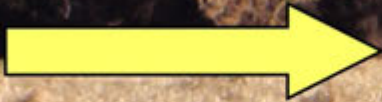
**Barriers for Vegetation & Grazing Monitoring**







# Data loggers













# Motion Trap Cameras



















**Assessments on  
impacts by  
Livestock in the  
Ak-Chin Wetlands**



# **Ak-Chin Indian Community Termination Pond**











**Solar Aeration**

















**Earth Day 2015 Termination Pond  
Clean Up**