

2015 ZEBRA-TAILED LIZARD MONITORING HUALAPAI RESERVATION



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Marianne Crawford
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HISTORICAL BACKGROUND

- **Prior to the 1983-4 flood event on the Colorado River in Grand Canyon, zebra-tailed lizards were common at the Diamond Creek dunes on the Hualapai Reservation.**
- **The flood caused river raft operators to drive over the dunes for raft take out and launch**
- **After the flood event (83-4) no more zebra-tailed lizards could be found at the Diamond Creek dunes and they were deemed as extirpated in Grand Canyon**
- **In 2012, Reclamation funded the Hualapai Tribe and Stevens Ecological Consulting to implement a translocation and monitoring effort at the Diamond Creek dunes**
- ✘ **12 lizards were translocated from Peach Springs Cyn to DC**
- ✘ **2012 – 2015 Annual Monitoring- 1 survey/mo. May-Oct**

DIAMOND CREEK TRANSLOCATION AND MONITORING AREA









Male zebra-tail



Female zebra-tail



Juvenile zebra-tail

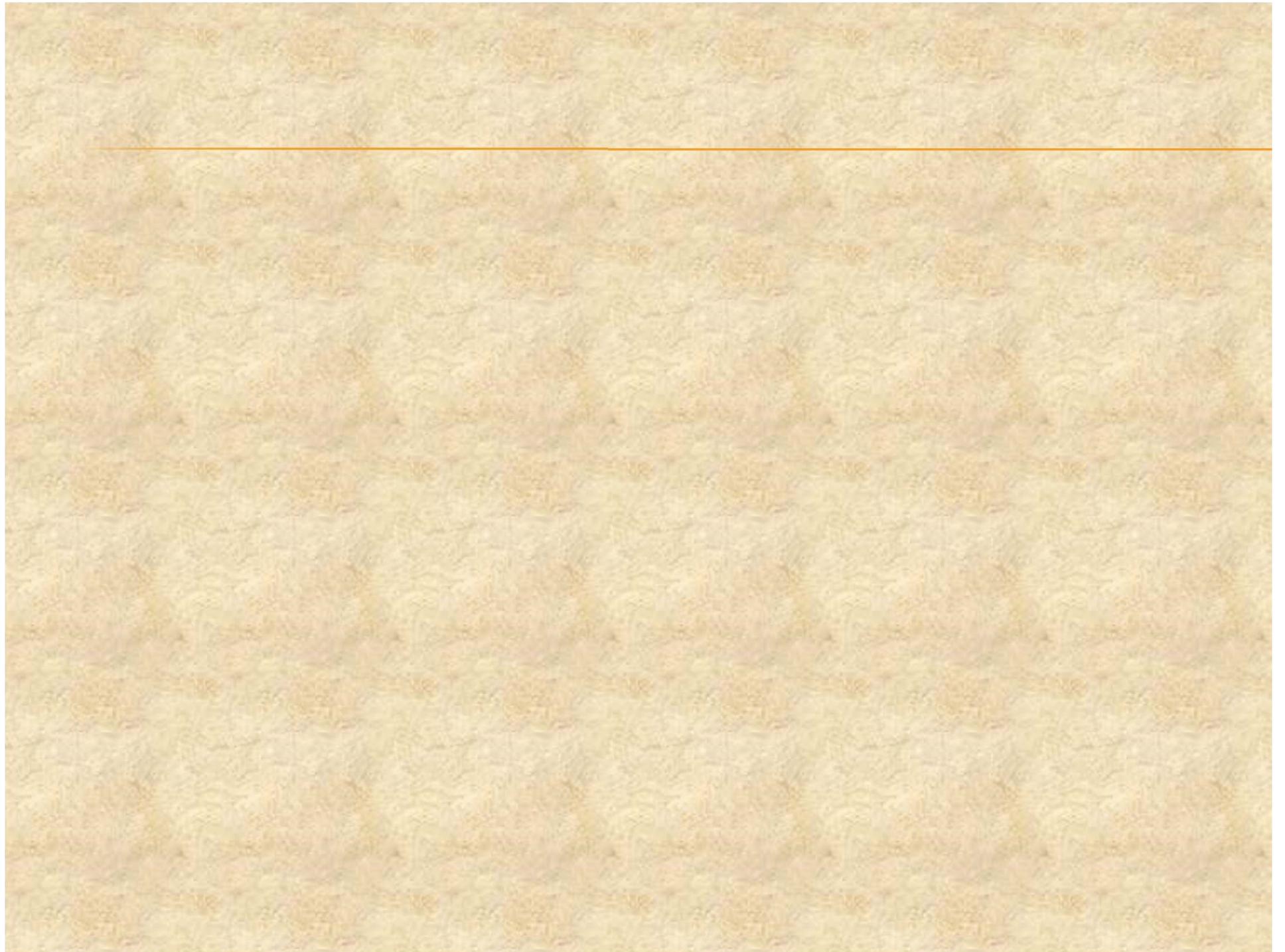


Baby zebra-tail

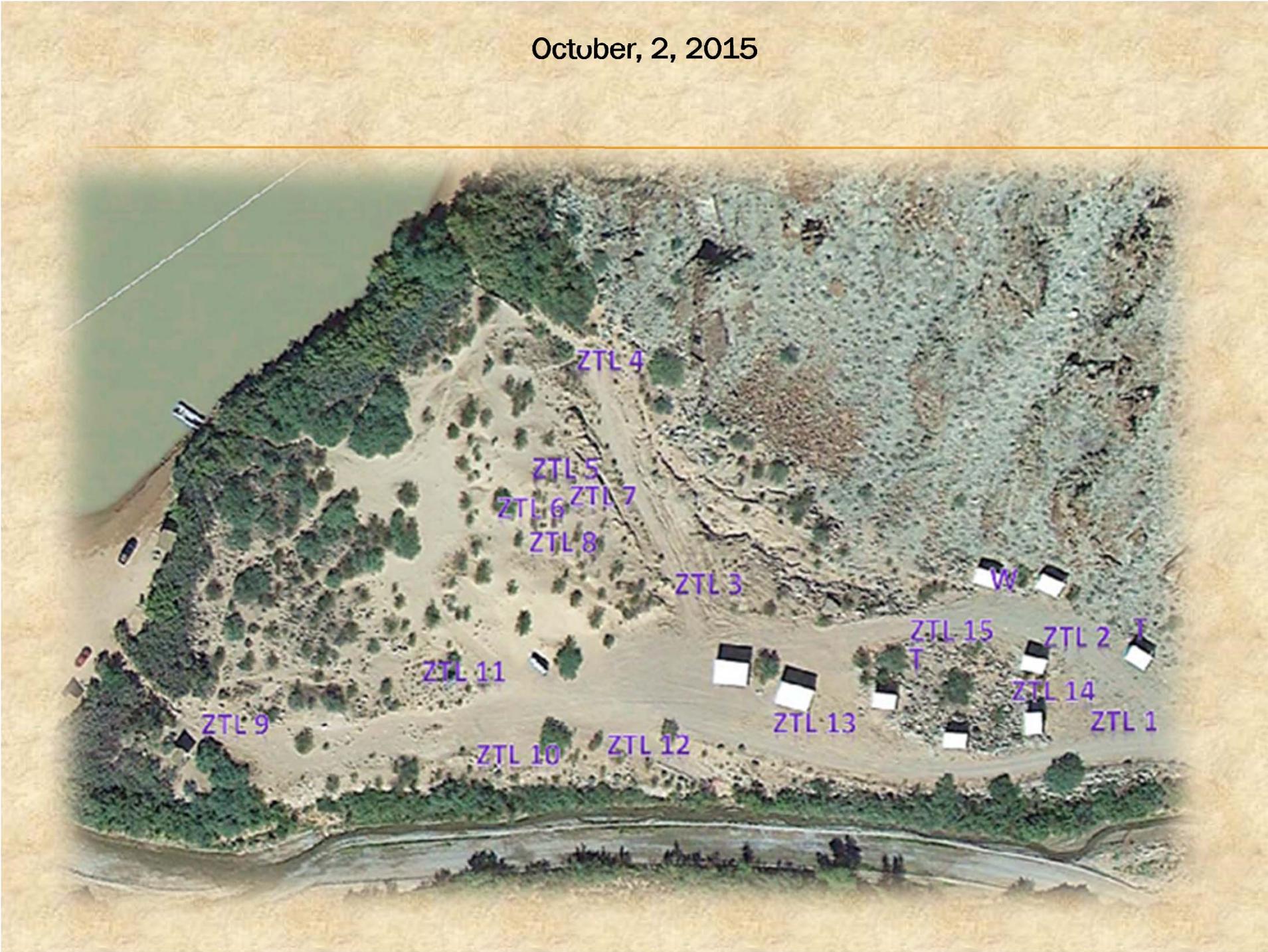


Zebra-Tail!!





October, 2, 2015



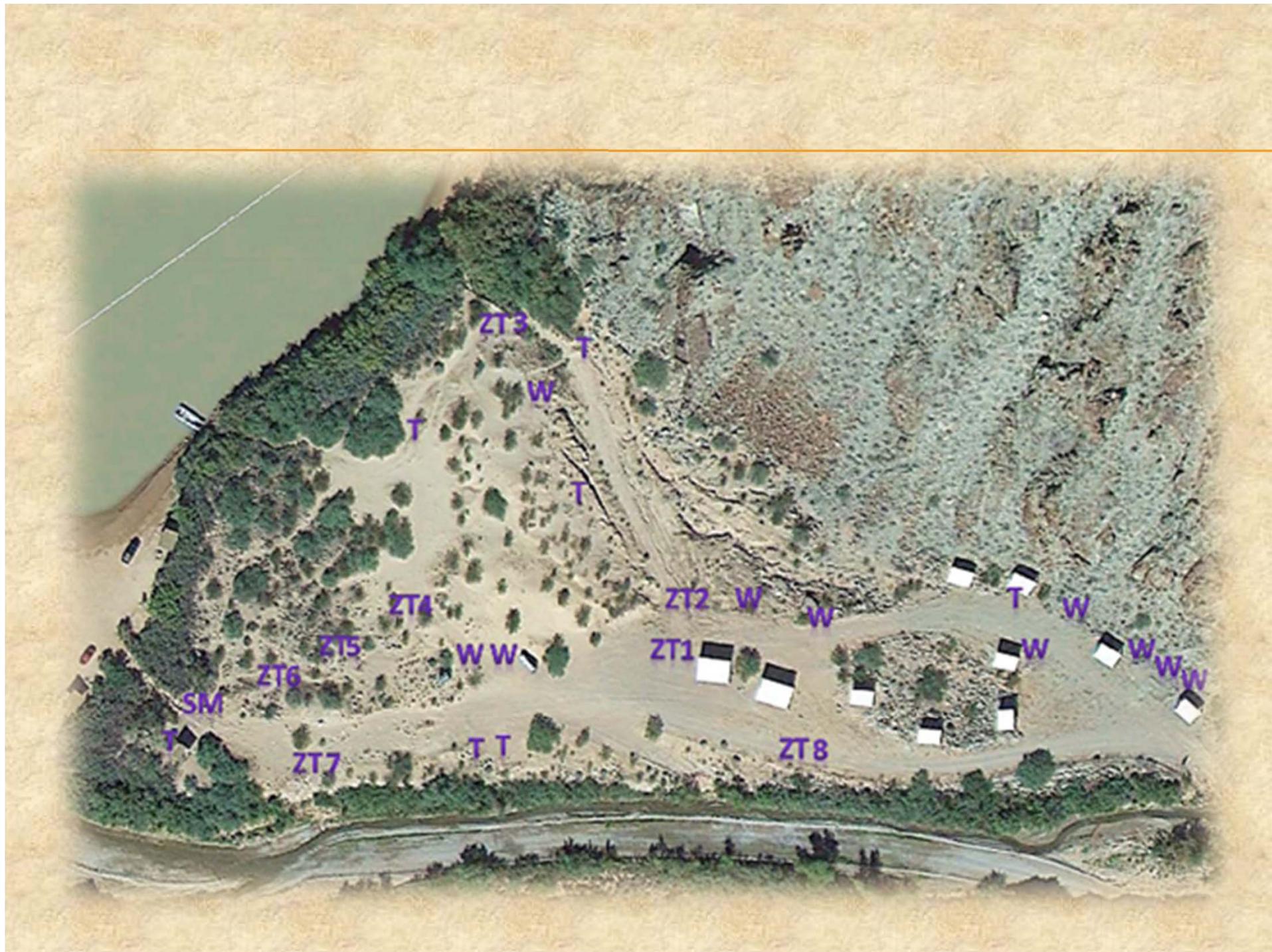


Table 1. 2015 zebra-tail lizard survey results

Date	# of ztl located	# juveniles	# Babies	Mean dist. To veg. (m)	Vegetation type(s)
May 1, 2015	9	1	0	0.7	Sand verbena, mesquite, creosote, brittle bush
June 4, 2015	8	2	0	1.2	Sand verbena, creosote, brittle bush
July 8, 2015	13	1	5	1.0	Brittle bush, creosote, seep willow, arrowweed
August 13, 2015	9	1	1	0.5	Sand verbena, arrowweed, creosote, catclaw
September 11, 2015	14	7	1	0.8	Creosote, mesquite, sand verbena
October 2, 2015	15	4	3	1.0	Sand verbena, creosote, mesquite
Average	11.3	2.7	1.7	0.9	

Table 2. A summary of the annual zebra-tail lizard monitoring results 2012-2015.

Year	Mean # of ZTL located	Mean # Juveniles	Mean # Babies	Mean distance to vegetation (m)
2012	4.0	0.6	0.00	1.2
2013	3.5	1.0	0.00	1.3
2014	5.6	2.4	0.13 (3 Total)	2.0
2015	11.3	2.7	1.70 (10 Total)	0.9



QUESTIONS

ANNUAL REPORT AVAILABLE UPON REQUEST