

MISSION GARDEN

*Design Workshop for  
Stormwater Use at Mission  
Garden*

*OCTOBER 23, 2012*

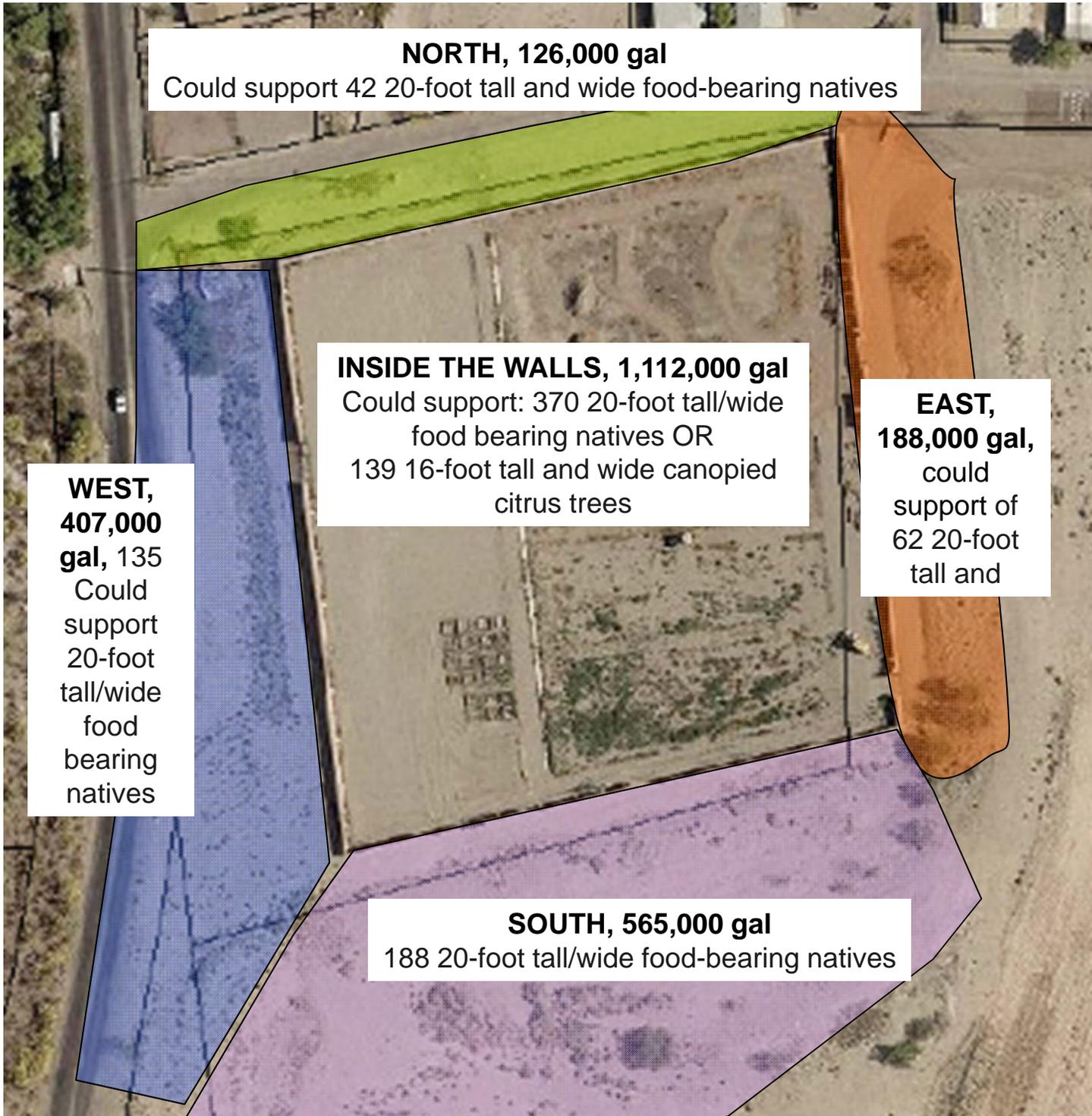
*HOSTED BY CITY OF TUCSON, HISTORIC PRESERVATION OFFICE WITH  
FUNDING FROM THE ARIZONA STATE FORESTRY DIVISION*

*LED BY BRAD LANCASTER  
Rainwater Harvesting for Drylands*



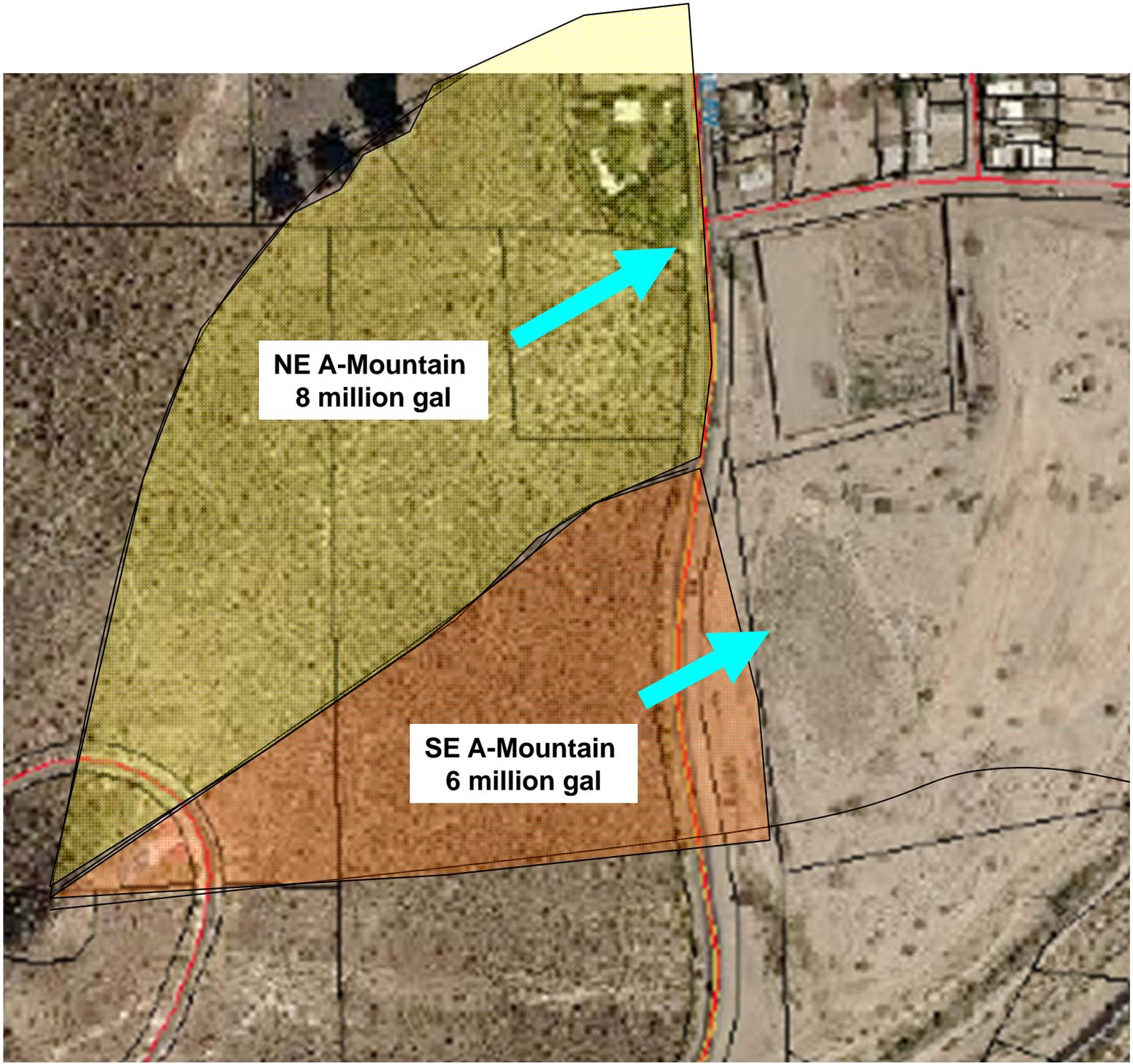
MISSION  
GARDEN

**SPRING  
2012  
AERIAL  
PHOTO**



## MISSION GARDEN

**APPROXIMATE DIRECT RAINFALL OVER CATCHMENT AREAS AT AND AROUND MISSION GARDEN, AND ASSOCIATED POTENTIAL TO SUPPORT TREES**



**NE A-Mountain  
8 million gal**

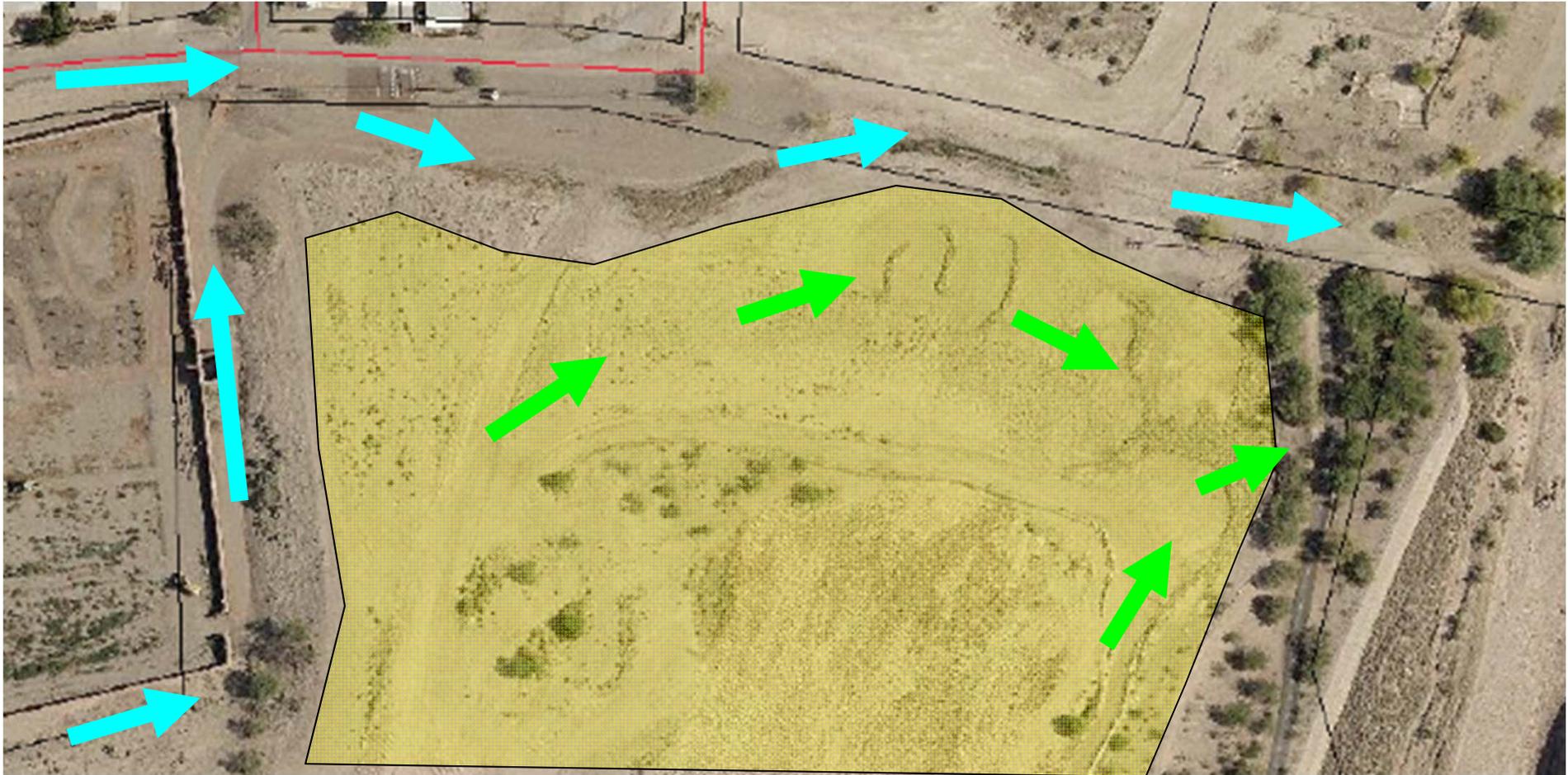
**SE A-Mountain  
6 million gal**

**MISSION  
GARDEN**

**APPROXIMATE  
STORMWATER  
RUNOFF FROM  
A-MOUNTAIN**

# MISSION GARDEN

## APPROXIMATE DRAINAGE FROM MISSION GARDEN AREA AND A-MOUNTAIN LANDFILL AREA TO THE SANTA CRUZ RIVER



# *Design Workshop for Stormwater Use at Mission Garden:*

## *Brainstorm Approach.....*

**Goals:** *Minimize use of potable water. Make optimum use of stormwater. Improve habitat and aesthetics around the Garden. Protect wall from graffiti*

**Issues:** *How to safely harness large stormwater flows, archaeology constraints, landfill constraints, stormwater quality issues, large sediment load, land ownership, funding*

**Potentials:** *Very large volume of rainwater/stormwater available*

**Questions:** *What are the new drainage patterns and volumes from A-Mountain?  
What are elevations inside and outside Garden wall that affect ability to use stormwater?  
How will conveyance of stormwater down to river affect Mission Garden perimeter?*

**Solutions:** *Assemble stakeholders to discuss creative, practical design approaches*

**Next Steps:** *Answer needed questions, determine funding options, have additional meetings to refine approach, undertake data collection and design.*

# *Design Workshop for Stormwater Use at Mission Garden*

## *GUIDING DESIGN WITH THE FIVE CAPITALS:*

*Social*

*Environmental*

*Economic*

*Infrastructure*

*Human Capability*