

Workshop Agenda

- C2E Intro and Grant Requirements (15 min)
 - Candice Rupprecht, University of Arizona WRRC
- Community Enhancement Project Examples (20 min)
 - Lisa Shipek, Watershed Management Group (WMG)
- Green Infrastructure permitting (10 min)
 - Gary Wittwer, City of Tucson
- Q&A (remainder of hour)



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Tucson C2E Goals

- · Enhance quality of life
- · Restore ecosystems
- Improve biodiversity

The environment can be a significant motivator that makes these connections.





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Tucson C2E Pilot Program

Since January 2011:

- 60 participants began a 2 year enrollment in January 2011-Dec. 2013
- **3.2 million gallons** of water conserved by participants
- 29 rainwater harvesting projects implemented
- \$37,000 donated to the Tucson C2E fund
- \$43,000 invested in local enhancement projects

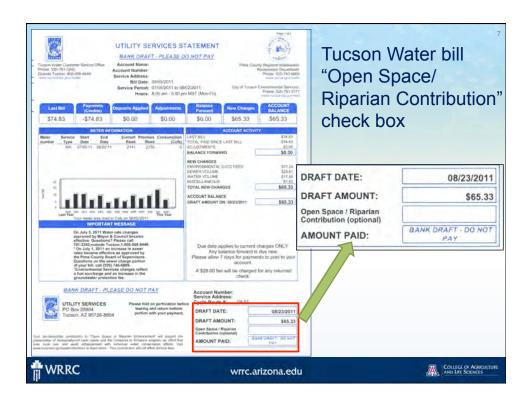






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- Henry Elementary WINS! Wash Improvement and Neighborhood Sustainability submitted by Henry Elementary
- 1st Ave./Seneca Greening and Beautification Project submitted by the Northwest and El Cortez Neighborhoods
- Mitchell Park Wildlife Habitat & Green Infrastructure Project submitted by the Mountain/1st Ave Neighborhood



Application Packet

- Due April 11, 2014
- Can submit paper or electronic copy
- Application
 - Project Description
 - Site Map and Design Diagram
 - Budget
 - Planning Timeline
 - Letters of Support





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Non-negotiable project components

- 1. The project must be located in the Tucson Water service area.
- 2. The project site must have a **demonstrated connection** to a designated urban wash or riparian area.
- 3. The requested C2E funds may not exceed \$7,500.
- 4. All land owners affected by the project site must sign a **letter of support** for the proposed project.



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Important Notes for Application

- "Additional Information" doc provides details on the Application Questions (p.5 &6)
- Evaluation Criteria matches up w/ Application Questions (p.8)
- Section 4: Site Map & Design Diagram (p.6)
- Section 5: Budget (p.6)
 - Fiscal agent required to manage funds & submit reimbursements
 - Ancillary not to exceed 20% (permits, tools, stipends)
 - Matching not required, but helpful (volunteer time, expertise, tools)



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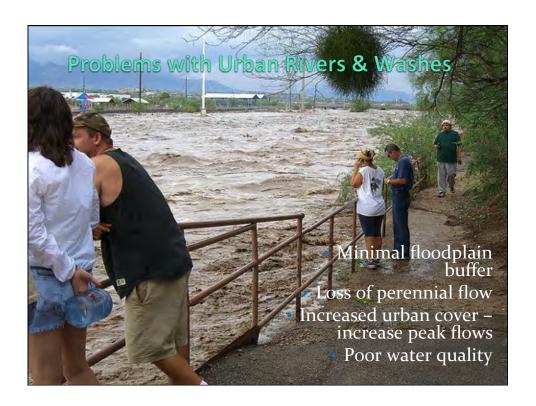
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•	Section 1: Project Description		
Scoring	Site need is clearly stated and relevant to local issues (Q1)		
36011114	Proposed project improves ecosystem (Q1)		
	Connection with urban washes & riparian areas (Q2)		
	Project outcomes aligned with C2E goals (Q3)		
Rubric*	Section 2: Water Resources		
	Water conservation practices clearly described and reasonable (Q4)		
	Onsite water resources improved to enhance natural environment (Q5)		
	Section 3: Community Investment		
	Organizational support clearly described and sufficient for project plan (Q6)	1	
	Outreach clearly described including neighborhood engagement & education and volunteer commitment (Q7)		
	C2E participant commitment (Q7)		
	Maintenance plan is clearly described & effective (Q8)		
*This table and other		Narrative Subtotal	/50
halaful information is	Section 4: Site Map & Design Diagram (25 points) (Q9)		
helpful information is available in the "C2E	Site map includes project area boundaries and design clearly depicts relation to major intersections		
available iii tile CZE	Proximity to wash/riparian area clearly illustrated		
Project Application	Site is publicly accessible & highly visible		
	Design diagram clearly illustrates project components		
Information"	Design diagram illustrates site need and project benefits		
companion document.		Map Subtotal	/25
companion document.	Section 5: Budget (20 points)		
	Fiscal agent identified & verified		
	Ancillary project needs don't exceed 20% of total project budget		
	Budget requests are reasonable and within category limits		
	Appropriate scope of work for budget		
		Budget Subtotal	/20
	Section 6: Timeline (5 points)		
	Tasks are clearly defined & timeline reasonable	Timeline Subtotal	/5
	Optional: Matching support (funds and volunteer time) included, innovative project design, or demonstrated exceptional value to community	Bonus (up to 5 points)	
WINDDC		Total Project Score	/100











Goals of Neighborhood C2E Projects

- Increase native vegetation near washes and rivers to expand habitat, cool temperatures, and slow and sink stormwater
- Increase soil moisture near washes/streams to support native habitat plants
- Reduce runoff and associated pollutants that ends up in washes
- Beautify areas near neighborhood washes to create a community resource
- Reduce erosion and sedimentation in smaller tributaries

Projects C2E Will Fund

- Green Infrastructure along streets, parking lots, parks, or public spaces like churches and schools
 - Prioritize projects within 400 feet of neighborhood wash
 - Prioritize projects in areas of concentrated flow or flooding
- Habitat restoration along/near washes
- Restoration in tributary washes or upland drainages



What C2E Will Not Fund

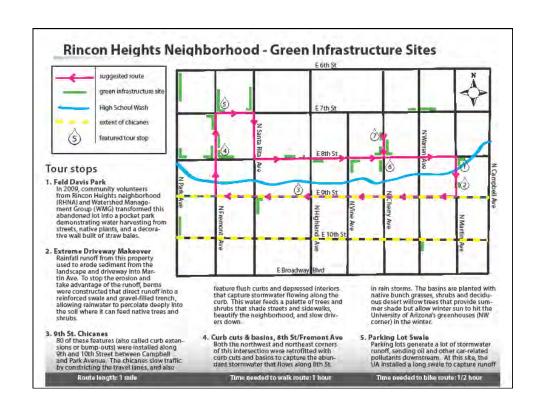
- Grey infrastructure
- Bank stabilization with concrete
- Water harvesting on residential properties
- Green infrastructure far away from washes/streams
- Tree planting projects that don't incorporate rainwater or stormwater harvesting
- Projects that use non-native vegetation
- Projects that only do education or design

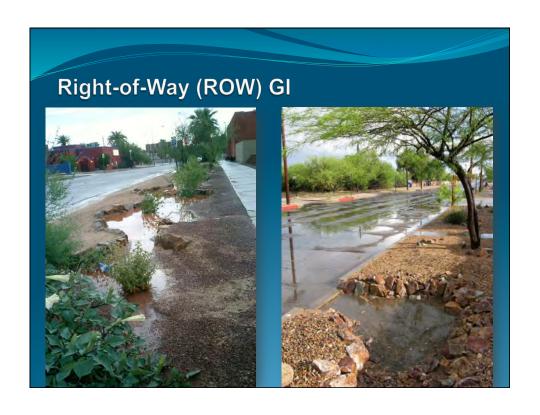
Sample Projects

Tributary Washes, Upland Drainages

 "Natural" erosion control features like Check dams, Zuni Bowls, Rock Rundowns with associated plantings



























Money can be used for:

- Contractors for planning, designing, and installing features
- Permits
- Materials: rocks, mulch, plants
- Curb cuts
- Temporary watering and irrigation
- Signage
- Maintenance

Typical Costs

• 1 block Green Infrastructure: \$2,000

Design/Build Contractors: \$50 -\$100/hr

• Excavator: \$100/hr

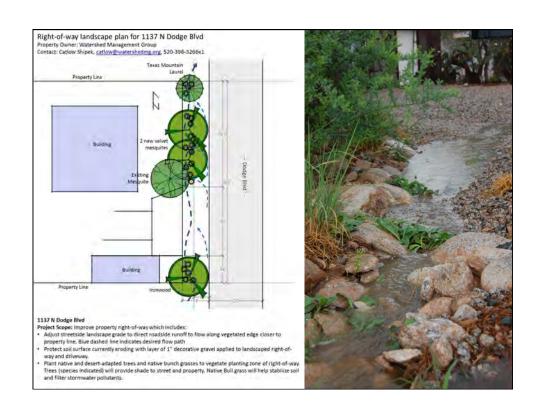
Right-of-way permit: \$50/block

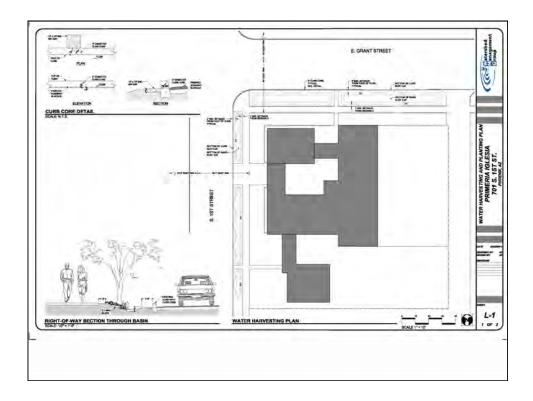
Curb Core: \$50Curb Cut: \$200

• Chicane: \$5,000

• Traffic Circle: \$10,000







Resources for GI and Restoration Projects

- Organizations/Individuals for Design-Build Projects:
 - Watershed Management Group, Catlow Shipek, watershedmg.org, 520-396-3266
 - Tucson Audubon, Kendall Krossen, tucsonaudubon.org, 520-629-0510
 - Ethos RainWater Harvesting, Lincoln Perino & Jeff Rhody, 520-369-2376, info@ethosrainwater.com
 - Ahimsa Landscaping, Justin Bramhall, 520-345-1906, ahimsalandscaping.com
- Design
 - Wheat Scharf, Laura Mielcarek, wheatscharf.com, 520-884-7911
- City /County
 - City of Tucson, Department of Transportation, Gary Wittwer
 - Pima County Flood Control, Evan Canfield
- Contractors
 - Lil John's Excavating
 - Custom Saw Cuts

