

2013 Community Enhancement Project Grant Application

Application Checklist

- □ Community Enhancement Project application completed & signed
- □ Map of project site included
- Project Budget attached
- □ Project Planning Timeline attached

Application Deadlines

Community Enhancement Project applications are due February 8, 2013. Applications can be emailed to <u>c2e@watershedmg.org</u> or mailed to: Watershed Management Group PO Box 44205 Tucson, AZ 85733

A Grant Workshop will be held on Thursday, December 6, 2012 from 5-6pm at the Water Resources Research Center (350 N. Campbell Ave.) for those interested in learning more about C2E and the Community Enhancement Project Grants. Please RSVP at http://watershedmg.org/civicrm/event/info?reset=1&id=201.

For more information on the Community Enhancement Projects and the application process, please refer to the Additional Information document available at <u>http://watershedmg.org/c2e</u>. For any questions, please email <u>c2e@watershedmg.org</u>.

Application Instructions

This is a fillable Word document, so you can type in any of the grey text boxes or the grey check boxes. The text boxes will expand as you type. Please save the completed file with your last name in the file name.



Applicant Informatio Name:	n		
Address:		City: <u>Tucson</u>	State: <u>AZ</u>
Phone:	Email:		

Project Information

Project Title: <u>Mitchell Park Wildlife Habitat and Green Infrastructure Project</u> Project Location: <u>1100 E. Mitchell St., Tucson AZ 85719</u> Site Ownership: <u>City of Tucson</u> Site Map: (Include a map that illustrates the planned project design and the extent of project area.)

Project Description

1. How will the proposed project improve or enhance this site?

This project is designed to improve and increase wildlife habitat in a city park setting and reduce potable water irrigation by utilizing stormwater. The wildlife habitat will be improved by adding native trees and shrubs, selecting host and food source plants, and creating multi-level structural habitat with additional plantings. 9,000 sq. ft. of existing irrigation will be removed from areas currently supporting turf, resulting in an estimated water savings of 1.1 acre-feet/year. Storm water will be brought into the park through curbcuts and swales to support the new native plantings, requiring less water support. (see: MitchellPark-site-overview-jan2012.jpg and MitchellPark-conceptual-water-harvesting-plan.pdf. pages 1-2. project design by WMG).

Mitchell Park is the "crown jewel" of the Mountain/1st Avenue Neighborhood and our foremost "quality of life" amenity, used not only by locals but also the Samos and Hedrick Acres Neighborhoods which have no parks within their boundaries. As such, Mitchell Park is heavily used, allowing people to find relief from the heat of summer and to recreate year-round. Adding wildlife habitat and an educational component to the Park will accentuate the playground, picnic-ing and sportsfield functions currently there. The educational component will add to our sense of place as we educate park users about natural water flows and wildlife ecosystems in this desert community.

The project site is Mitchell Park, which is located within the Flowing Wells watershed within the City of Tucson and the Upper Santa Cruz Basin (see: Project Area Washes.pdf). The park is situated within 300-400 feet of two tributaries of Flowing Wells Wash: Cemetery Wash (west) and Mountain Avenue Wash (east). The washes receive storm water runoff from Mitchell St., Fremont Ave., and Santa Rita Ave., which bound the park. More



Application for Community Enhancement Projects

than half the runoff flows to the west into Cemetery Wash (Park Ave., right-of-way, and adjacent alley), eventually reaching Flowing Wells wash to the north. The remaining runoff flows to the east toward Mountain Ave. where it drains into a large subsurface culvert beneath the street that flows north into Navajo Wash and then west into Flowing Wells Wash. Flowing Wells Wash flows west into the Santa Cruz River in northwest Tucson near Prince Rd. and Interstate 10.

Mitchell Park has a significant number of large trees and turf grass that are supported by irrigation using potable water from the City of Tucson but lacks trees in certain areas and has no mid-story vegetative habitat. The native bird and animal populations in and around the park include Coopers Hawk, Vermillion Flycatcher, Gambel's Quail, coyote and rabbit. A number of neighboring private parcels have storm water harvesting systems and native vegetation and habitat (see: mitchell_waterharvest_habitat.pdf).

Project Goals:

1. Improve and increase wildlife habitat and diversity in a city park setting and improve habitat connectivity to neighboring private parcels.

- 2. Reduce demand for potable water irrigation by utilizing storm water instead
- 3. Capture storm water near its source to reduce flooding on neighboring streets
- 4. Reduce non-point source pollution
- 5. Enhance neighborhood livabilty by increasing the number of trees/shaded areas that will encourage
- pedestrian activity and improve overall aesthetics
- 6. Reduce energy costs by reducing the need to pump potable water
- 7. Mitigate the Urban Heat Island effect
- 8. Educate neighbors and visitors about the Conserve to Enhance program and all goals above.

2. Is the project site physically connected to an urban wash or riparian area?	Yes	No🖂
3. Is the project site adjacent to a drainage (natural or man-made)		
that feeds into a wash or riparian area?	Yes🖂	No
4. Is your project within Tucson Water's service area?	Yes🖂	No

5. The overarching goals of the Tucson C2E program are to improve Tucson's quality of life, restore ecosystems and increase biodiversity. Please indicate how this project will enhance the surrounding ecosystem in support of the overall C2E program goals. (*Mark all that apply*) (*See Additional Information document for more information.*)

Adding new native habitat

Revised 11/14/12



Application for Community Enhancement Projects

Decreasing energy bills
Erosion control
Growing food
Improving walkability
Increasing shade cover
Increasing soil moisture
Increasing wildlife

Mitigating urban heat island effects
Neighborhood beautification/aesthetics
Reducing sewer & septic inputs
Restoring native habitat
Soil conservation
Other:

Connection to Water Resources

6. If supplemental water is needed for the project, what type(s) of water will be used and where will it come from? (*Types of water include potable, non-potable or reclaimed, harvested and grey water.*)

Although the project estimates a reduction of irrigated water in the amount of 366,000 gal/yr through the removal of existing irrigation, new plantings will require water sufficient to get them established. A potable supply is available from an existing spigot in the Park. Spot irrigation of these new plantings will be needed for the first spring to summer period. Estimated water needed for establishing these new plantings: 5 gallons/tree/20weeks and 2 gallon/shrub/20weeks equals 2800 gallons. Our project work plan includes a commitment by Mtn/1st neighbors to do this hand-watering.

7. What water conservation practices (e.g. using correct watering rates, preventing water waste, phasing out irrigation) will be implemented during the project and after completion?

Existing irrigation in new planting areas will be removed and replaced by harvested stormwater. An estimated 1.1 acre-feet of irrigated water will be saved in these areas. Additionally, we will work with the City of Tucson Department of Parks and Recreation to remove non-useful irrigation within the park. In the past the park had several mature Ash trees which were irrigated by the city water system. Since then these trees have died and been removed, but the irrigation continues. Reducing the amount of potable water imported to Mitchell Park for irrigation reduces costs of supply as well as energy needed for its transport. The Tucson Department of Parks and Recreation has pledged to work with our Neighborhood Association "through the design, implementation and long term maintenance of the park improvements." (see letter from Jim Conroy, East District Administrator).

Community Investment

8. Describe the organizational support for this project, including each partner's role and contribution to the project. List individuals and organizations.

This project includes organizational support from: Mountain/1st Avenue Neighborhood Association (N.A.), the <u>City of Tucson Department of Parks and Recreation, the City of Tucson Department of Transportation, and the</u> <u>Watershed Management Group.</u>

Revised 11/14/12



Individuals contributing to this project include several Mtn/1st N.A. members including: Rod Frable: President, who will be convening and running monthly N.A. meetings to promote this project, Alice Blisteen: Treasurer, who will be handling funding requirements of the grant, Axsel Gudenkauf: Secretary, who keeps association records and posts them to our Yahoo group for neighborhood notifications, N.A. member Ron Proctor: grant proposal writer and project organizer, N.A. member Gita Bodner: native plant specialist and Conserve to Enhance participant, who will be part of our education and planting team, N.A. member Craig Kafura: hydrogeologist, with waterharvesting and permaculture experience, grant writing participant, N.A. member George Hubbard: past N.A president and grant writing participant, N.A. member Sarah Sharp: past N.A. president and grant writing participant, N.A. members are fully engaged in this proposal and intend to help with outreach, education, and construction phases. For the construction phase we will be reaching out to our Mtn/1st Neighborhood population and include those who participated in a neighborhood 65-tree-planting weekend two years ago. We have folks who like to get their hands into the dirt and anticipate at least 10 Mtn/1st volunteers. Additionally, we plan to reach out to the Samos and Hedrick Acres Neighborhoods to more directly involve those from outside our Neighborhood in this project.

At the Organizational level (beyond the Neighborhood Association) we have made contact with, and are supported by:

Tucson Parks and Recreation: Jim Conroy, District Administrator. (Letter attached). Also Midge Irwin, Superintendent; and Jane Duarte, Capital Planning and Development Manager

Tucson Department of Transportation: Gary Wittwer, Landscape Architect. excavation permit, liability issues Watershed Management Group: Catlow Shipek, Senior Project Manager, project consultant, potential project contractor. WMG would be the project manager overseeing material orders, site preparation and planting. (see WMG_Estimate_MitchellPark-1feb2013-1.pdf).

9. What is the outreach plan for this project? (Outreach includes educating neighbors, providing volunteer opportunities, recruiting community members to become C2E participants and making the project visible and accessible.)

The outreach plan will include continual project updates at our monthly Neighborhood Association meetings to develop individual interests and engage a growing body of project participants. We will design, organize and host a neighborhood Educational Event to specifically promote the Conserve to Enhance Program (note: Gita



Bodner is already a C2E participant) and this Mitchell Park project. We use a Yahoogroup to reach our N.A. members and will distribute flyers house to house previous to the event. Additionally, we will use our single annual City of Tucson N.A. mailer to promote the Educational/project Event.

Volunteers will be encouraged at all meetings to take on specific tasks including creating mailer and flyers, and overseeing their distribution. Some will create educational presentations including: the C2E program, native habitat (flora and fauna), native washes and our neighborhoods' connection to them, waterharvesting, and permaculture practice which will be presented at our Education Event. During the construction phase we will (again) use volunteers to distribute pre-construction-day flyers, use volunteers to organize and gather other volunteers as well as tools, refreshments, and establish restroom facilities and first aid supplies.

Project visibility will occur through the efforts outlined above and with permanent signage installed in the park describing the project and its connection to the Conserve to Enhance program. Additionally, Watershed Management Group will actively help promote educational workshops, activities and accomplishments related to the project through email bulletins, website-based stories, and social media venues.

10. What is the project sustainability plan to ensure community engagement and site maintenance? The project sustainability plan will ensure community engagement in part, through continual awareness of the project, as we continue to hold our monthly Neighborhood Association meetings in the park within the project area. Our Neighborhood Association will work with Parks and Recreation in a cooperative manner to address maintenance issues including watering necessary to establish new plantings and annual cleaning of the waterharvesting basins and other issues as they may come forward. The Mtn/1st N.A. has been a long-term participant in Tucson's Clean and Beautiful Adopt-a Park program wherein several dedicated neighbors patrol and pick up litter on a daily basis. Our track record in taking care of Mitchell park has been well demonstrated. Educational signage discribing the project and the C2E program will educate our park visitors such that our neighborhood community will become more informed, connected, and resilient. Beyond the scope of this project, we have initiated plans to connect the Mitchell Park project to other waterharvesting projects in our neighborhood. Copper Street, Park Avenue, and parallel alleys are known to carry significant water during rain events. Opportunities to create natural habitat and public walkways are being explored by a University of Arizona, Landscape Architecture graduate student. His work may provide the basis

for another C2E grant proposal next year (see: From Alleys to Assets document).



C2E Agreement

If your project is awarded funding, your group agrees to enter into a contract to carry out certain tasks, such as...

- 1. Complete the proposed project within the time period laid out in the Application Timeline and Project Description.
- 2. Create signage at the project site in collaboration with C2E partners; sign will include C2E name, logo, website and list of C2E partners. (Include signage in the budget).
- 3. Submit quarterly invoices for reimbursement following the categories in the Budget. Other payment arrangements can be made if necessary.
- 4. Submit a one-page quarterly progress report with the reimbursement request.
- 5. Submit a final reimbursement and annual report once all work is completed.

Rod Frable, President, Mountain/1 st Ave. Neighborhood Association	Feb 7, 2013

Signature

Date



Project Budget Template

Name and contact of fiscal agent: <u>Alice Blisteen, Treasurer, Mountain/1st Avenue Neighborhood Association</u>

Item	Description	C2E Cost	Match
Direct Environmental Benefits			
Water Supplies (conveyance, irrigation systems, etc.)	repair parts for existing irrigation system	500.00	
Professional staff time for design & implementation	design/planning services (see WMG attachment)	736.00	
Contractors/labor to do project work	excavator, curb cuts, Primavera (WMG attachment)	3,360.00	
Site materials (hardscape & structures)	4-12"rip-rap, wood chips, deliveries	520.00	
Volunteer Time (valued at @\$19.71/hr; only use for match)			
Plants	native trees (16)15gal, native shrubs (30)1-5gal mix	740.00	
	Total	\$5856.00	\$
Ancillary Project Needs (not to exceed 20% of total budget)			
Tools	Neighborhood volunteers bring their own		
Permits	City of Tucson permit fee for ROW excavation	100.00	
Job and skills training/stipends, etc.			
	Total	\$	\$
Outreach/Education			
Signage	(1) C2E sign	250.00	
Workshop/tour supplies			
Workday supplies	Refreshments-supplied by Neighborhood Association		250.00
	Fliers/handouts		20.00
	Total	\$	\$
	Project Total		\$

Please complete budget template within this application or use Excel file template and attach separately. For more instructions, refer to the Additional Information document.



	2013			2014	Date Completed
Tasks	April-June	July-Sept	Oct-Dec	Jan-March	
Finalize project design & have approved by C2E	\square				
Work plan approved by land owner(s)	\square				
Project work day(s) scheduled		\square			
Project implemented			\square		
Quarterly report & reimbursable 1			\boxtimes		
Quarterly report & reimbursable 2			\square		
Quarterly report & reimbursable 3			\square		
Final report & reimbursable 4			\square		

Project Planning Timeline Template

Please complete Project Planning Timeline template within this application or use Excel file template and attach separately. For more instructions, refer to the Additional Information document.





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From Alleys To Assets

As a graduate student of the University or Arizona's Landscape Architecture program, neighborhood sustainablility is a subject of interest for myself and my masters report. Sustainability comes not only through enhancing environmental responsibility, but also through the enhancement of community and quality of life.

In my opinion, both the com-The diagrams below take a

munity and the environment can be improved by using alley ways to connect neighbors to one another, as well as to community assets. This map takes a look at opportunities for further implementation of water conservation and greenspace improvements. look at different possibilities on opportunities for the neighborhood and its residents.









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Project Estimate

Working together towards sustainable solutions

P.O. Box 44205 Tucson, AZ 85733

www.watershedmg.org

Client				
[Name]	Mtn&1st Ave NA			
[Street Address]				
[City, ST & ZIP]	Tucson, AZ	Instructor:	Catlow	
[Email]	@hotmail.com			
[Phone]	520	Estimate Date: 2/1/2013		
Project Type:	Neighborhood [Ex: Co-op; Comm.; Neig	hborhood; Schoolyard; Cor	mmunity DemoSite; C	ertification; Other (define)]
Project Features:	Streetside GI [Ex: EW; Cu	vert; Plastic Tank; GW; Ve	giGarden; Chicken Co	op; Maint.; Other (define)]
Impacts Offsite Stormwater?	yes			
Description/Purpose of	promote and increase urban wildlife habitat, offset potable water u	use by utilizing stre	eetside stormw	ater_
Feature(s):				
Event Date/Time:	TBD			
Budget Item	Description (type, size, etc)	Quantity	Rate	Amount
Consultation	Design/planning services (neighborhood discount rate)	16	\$46.00	\$736.00
Labor	Workshop site prep and installation, (neighborhood discount rate)	24	\$46.00	\$1,104.00
Permit - ROW	City of Tucson permit fee for rights-of-way excavation	1	\$100.00	\$100.00
Contractor - Excavator	3hr minimum and includes travel time	10	\$100.00	\$1,000.00
Contractor - Curb Cut	4 cuts (\$250 ea) or cores (\$50 ea)	4	\$250.00	\$1,000.00
Labor	PrimaveraWorks - Day Labor for prep and finishing items	16	\$16.00	\$256.00
Rocks & Gravel	4-12" Rip-rap to armor inlets	4	\$35.00	\$140.00
Delivery - Rocks & Gravel	delivery of rock material	1	\$60.00	\$60.00
Mulch	Wood chips	10	\$26.00	\$260.00
Delivery - Organic Mulch	delivery of chipped organic material	1	\$60.00	\$60.00
Plants - Native Trees	Type (TBD), 15gal	16	\$30.00	\$480.00
Plants - Native Shrubs	Type (TBD), mix 1gal and 5gal	30	\$8.00	\$240.00
Delivery - Plant Material	delivery of plant material	1	\$20.00	\$20.00
Irrigation - repairs	repair parts for existing irrigation system	1	\$500.00	\$500.00
			Subtotal	\$5,956.00
			Total**	\$5,956.00

General Conditions of Agreement

**This is an estimate to be used for planning purposes only. WMG charges for actual costs incurred. Significant changes to the scope of work will require a new signed estimate.

CHECK Responsibility for ordering, payment, & delivery				
Arranging	WMG	Client	Date Needed By & Specific Notes	
	- please indicate who is responsible -			
Earthworks	Х			
Pre-Soak				
Excavation	Х			
Rock	Х		Before workshop	
Gravel	N/A			
Mulch	Х			
Soil	N/A			
Plants				
Shrubs	Х			
Trees	Х			
BLUESTAKE?	Х		Call 1 week before digging	
Volunteers	0 - 10	10 - 20	PLEASE SPECIFY	
Food and Snacks		Х	Provided to workshop volunteers	

General Conditions of Agreement

1. If the workshop site is a rented/leased property, WMG requires written landlord/lessor approval of the project plans prior to beginning work. In the event landlord/lessor does not approve, the client shall pay WMG for all services rendered.

2. Upon receipt of this signed estimate and 50% deposit, WMG will plan a five-hour Co-op workshop at your site on a date that is mutually agreeable. WMG will provide an appropriate number of volunteers to implement your project. WMG carries

commercial liability insurance to cover any injuries experienced by volunteers on your property during the workshop. 3. Since WMG cannot predict the exact number of volunteers or their skills and abilities in advance of the workshop, it is

possible that not all workshop goals will be accomplished during the course of your workshop. In such an event, the workshop instructor will work with you to leave the property in a satisfactory condition.

4. The client's responsibilities under this agreement are : (a) to be present for each work day and be involved in the planning process, (b)to provide drinks , refreshments, and restroom access for workshop volunteers, and (c) to acquire any materials listed above as the client's responsibility, prior to the date of the workshop.

5. Services not covered in this agreement that require additional labor and/or materials will necessitate an additional charge. 6. WMG does not have a contractor's license. Licensed contractors should perform all guttering and indoor plumbing work. WMG can recommend contractors who perform quality work.

7. WMG shall order a Blue Stake utility marking for the project site prior to construction. In the event of damage to the property that is not covered by Blue Stake's guarantee, or of any accidental damage caused by volunteers, WMG shall not be liable for repairs, but will work with you to reach a mutually satisfying resolution.

Invoices will be sent following the completion of each workshop and/or project phase. Payment is due within 15 days following receipt of invoice of costs. Deposits shall be credited to your balance at final invoicing upon completion of project.
This agreement may be terminated by the client or by WMG provided seven days' written notice has been given. In the event of termination by the client, the client shall be responsible for payment to WMG of all services rendered up to the date of termination.

Please sign below to confirm you have read the estimate in its entirety and agree to the terms outlined above:

Client

Date

The signed estimate can be mailed or scanned and emailed to the Catlow Shipek catlow@watershedmg.org). Workshop deposits can be made online (www.watershedmg.org "Make a payment" under the "Contribute tab" - please note "workshop deposit" in the note field) or by check and included with the signed estimate.



IUCSON PARKS & RECREATION

DEPARTMENT

February 7, 2013

Ron Proctor Mountain/First Ave Neighborhood Association

Dear Mr. Proctor:

The City of Tucson Parks and Recreation Department fully supports your grant submission for the "Conserve to Enhance Grant" for Mitchell Park. We view your project as a very progressive environmentally responsible water harvesting project. This project helps us all meet the goal of being more a sustainable Community.

If awarded, the Tucson Parks and Recreation Department is committed to work with your Neighborhood Association through the design, implementation and long term maintenance of these park improvements.

I wish you the very best through the application process and I am hopeful that your grant will be awarded. The Tucson Parks and Recreation Department appreciates Neighborhood Associations such as yours who demonstrate this type of community commitment and leadership.

I look forward to hearing the outcome of your grant submission.

Sincerely. or **Jim Conroy**

East District Administrator Parks and Recreation Department



EAST DISTRICT ADMINISTRATION 7575 E. SPEEDWAY SUITE 100 • TUCSON, AZ 85710 (520) 791-5930 • FAX (520) 791-5929 • TTY (520) 791-2639 www.tucsonaz.gov/parksandrec