



City Council Weekly Information Packet

Thursday, March 30, 2023

Includes the following documents/information:

- 1) City Council Events Schedule
- 2) April is Sexual Assault and Child Abuse Awareness and Prevention Month
- 3) SRP Biopass Partnership
- 4) Community Services Department Update



City Council Events Schedule

March 30, 2023 thru May 19, 2023

The Mayor and City Council have been invited to attend various community meetings and public and private events at which a quorum of the City Council may be present. The Council will not be conducting city business, nor will any legal action be taken. This is an event only and not a public meeting. A list of the community meetings and public and private events along with the schedules, dates, times, and locations is attached. Organizers may require a rsvp or fee.

Thur	Mar 30	11:00 a.m. – 12:00 p.m.	Ribbon Cutting: United Pet Care Location: United Pet Care 1738 W. Broadway Road #213 Tempe, AZ
Sat	Apr 1	9:00 a.m. – 11:00 a.m.	Neighborhood Celebration Location: Kiwanis Park Fiesta Ramadas 6111 S. All-America Way Tempe, AZ
Sat	Apr 1	9:00 a.m. – 12:00 p.m.	Tree-A-Thon Location: Connolly Middle School, Escalante, Alegre, Joyce Park, Arredondo Park Tempe, AZ
Sat	Apr 1	10:00 a.m. – 12:00 p.m.	Tempe PRE Family Literacy Engagement Event Location: Escalante Community Park 2150 E. Orange Street Tempe, AZ
Sat	Apr 1	4:00 p.m. – 6:00 p.m.	Tempe Palms NA Neighborhood Potluck Location: Siesta & Shannon cul-de-sac
Sun	Apr 2	7:30 a.m. – 10:00 a.m.	Tour de Tempe Bike Ride Location: Kiwanis Parking Lot, West Tempe AZ
Mon	Apr 3	5:00 p.m. – 7:00 p.m.	Arts in the Park Reopening Celebration (Redden Park) Location: Redden Park South Lakeshore Drive & East Redfield Road Tempe, AZ
Tues	Apr 4	4:00 p.m. – 6:00 p.m.	Mayor’s All Abilities Awards Location: Tempe Center for the Arts 700 W. Rio Salado Parkway

			Tempe, AZ
Thur	Apr 6	6:00 p.m.	Sunset NA Hybrid Meeting Location: Westside Community Center Cahill Senior Center 715 W. 5 th Street Tempe, AZ Zoom Link: tempe.gov/NeighborhoodMeetings
Thur	Apr 6	6:00 p.m. – 9:00 p.m.	Tempe Leadership Class XXXVIII: Drink and Drag Bingo Fundraiser – Serving tea with a Twist Location: Drink Me! Tea Room 1730 E Warner Road #5 Tempe, AZ
Sat	Apr 8	10:30 a.m. – 12:00 p.m.	Alameda Meadows, McClintock, Palmcroft Manor, & Santo Tomas Neighborhood Associations Meeting Location: Selleh Park 2425 S. Los Feliz Drive Tempe, AZ
Tues	Apr 11	6:00 p.m. – 8:00 p.m.	Annual Ramadan Dinner Location: Tempe History Museum Community Room 809 E. Southern Avenue Tempe, AZ
Fri	Apr 14	8:30 a.m. – 10:00 a.m.	Tempe Business Roadshow Location: Hilton Garden Inn University Research Park 7290 S. Price Road Tempe, AZ
Fri	Apr 14	6:30 p.m. – 9:30 p.m.	VICINITY Tempe Location: Arizona Heritage Center 1300 N. College Ave. Tempe, AZ
Sat	Apr 15	6:00 p.m. – 9:30 p.m.	Childsplay’s World of Wonder Gala Location: The Clayton House 3719 N. 75 th Street Scottsdale, AZ
Mon	Apr 17	12:00 p.m.	Grand Canal Connection Project Virtual Public Meeting Zoom Link: tempe.gov/GrandCanal

Mon	Apr 17	5:30 p.m.	Grand Canal Connection Project In-person Public Meeting Location: Tempe's Field Services Assembly Hall 55 S. Priest Drive Tempe, AZ
Tues	Apr 18	5:00 p.m. – 7:00 p.m.	Arts in the Parks: Spring Celebrations (Indian Bend Park) Location: Indian Bend Park 150 E. Marigold Lane Tempe, AZ
Wed	Apr 19	12 p.m.	Kyrene, Roosevelt, Farmer Bike and Pedestrian Improvements Project Virtual Public Meeting Zoom Link: tempe.gov/Handlebars
Wed	Apr 19	5:00 p.m. – 7:00 p.m.	Arts in the Parks: Spring Celebrations (Corbell Park) Location: Corbell Park 7300 S. Lakeshore Drive Tempe, AZ
Wed	Apr 19	6:00 p.m.	Kyrene, Roosevelt, Farmer Bike and Pedestrian Improvements Project In- person Public Meeting Location: Childsplay Theatre Company Rehearsal Hall 900 S. Mitchell Drive Tempe, AZ
Thur	Apr 20	7:00 p.m. – 8:00 p.m.	Youth Mental Awareness Location: Chandler/Gilbert Family YMCA 1655 W. Frye Road Chandler, AZ
Tues	Apr 25	5:00 p.m. – 7:00 p.m.	Arts in the Parks: Spring Celebrations (Selleh Park) Location: Selleh Park 2425 S. Los Feliz Drive Tempe, AZ
Wed	Apr 26	5:00 p.m. – 7:00 p.m.	Arts in the Parks: Spring Celebrations (Scudder Park) Location: Scudder Park 5805 S. Lakeshore Drive Tempe, AZ
Fri	Apr 28	7:30 p.m. – 9:00 p.m.	Music Under the Stars - 14th Annual Performance Location: Tempe Diablo Stadium 2200 W Alameda Dr. Tempe, AZ

Sat	Apr 29	10:00 a.m. – 12:00 p.m.	Mayor's Annual Volunteer Appreciation Event Location: Pyle Adult Recreation Center 655 E. Southern Ave. Tempe, AZ
Mon	May 1	11:00 a.m. – 11:30 a.m.	Ralph Hoffman Plaque Dedication Location: Hayden House Front Porch/Patio 1 W. Rio Salado Parkway Tempe, AZ
Tues	May 2	5:00 p.m. – 7:00 p.m.	Arts in the Parks: Spring Celebrations (Hollis Park) Location: Hollis Park 3421 S. Kenneth Place Tempe, AZ
Wed	May 3	5:00 p.m. – 7:00 p.m.	Ars in the Parks: Spring Celebrations (Harelson Park) Location: Harelson Park 9325 W. Warner Ranch Drive Tempe, AZ
Thur	May 4	7:00 p.m. – 8:15 p.m.	Excellence in Education Location: Showroom at Wild Horse Pass 5040 Wild Horse Pass Boulevard Chandler, AZ
Tues	May 9	5:00 p.m. – 7:00 p.m.	Arts in the Parks Spring Celebrations (Optimist Park) Location: Optimist Park 2000 E. Sesame Street Tempe, AZ
Fri	May 19	5:00 p.m. – 7:00 p.m.	Boards and Commission Appreciation Event Location: Omni Hotel 7 E. University Drive Tempe, AZ

03/30/2023 JR

MEMORANDUM



TO: Mayor Woods and Tempe City Council
THRU: Paul Bentley, Deputy Community Health and Human Services Director
FROM: Tempe Family Justice Commission
DATE: March 31, 2023
SUBJECT: April is Sexual Assault and Child Abuse Awareness and Prevention Month

April is designated as Sexual Assault and Child Abuse Awareness and Prevention Month. To recognize the prevalence, extent, and severity of this wrongdoing in Tempe, and in support of the City Council's Safe and Secure Communities goal, the Tempe Family Justice Commission (TFJC) presents the following information based on its research and makes these recommendations for action.

CONTEXT:

With greater awareness and support for victims reporting crimes of sexual violence and child abuse, we have seen an increase in reports related to these crimes. These crimes now include elements related to online activities.

According to the National Sexual Violence Resource Center:

- Online sexual abuse can be any type of sexual harassment, exploitation, or abuse that takes place through screens.
- Forms of online sexual harassment or abuse include:
 - Sending someone unwelcome communication about sex or hateful comments based on sex, gender identity, and/or sexual orientation.
 - Sending partners, friends, acquaintances, or strangers unwanted requests for nude photos or videos or to livestream sexual acts.
 - Performing sexual acts on webcam without the consent of everyone involved or in inappropriate settings (like during an online class or online work meeting).
 - Sharing private images or videos without the consent of everyone involved (also known as revenge porn or nonconsensual pornography — which, as of February 2021, is illegal in 46 states, including Arizona, plus Washington, D.C.).
 - Sharing pornography in spaces where not everyone has consented to view it (for example, in inappropriate spaces like Zoom meetings, where this is also called Zoombombing).
 - Grooming children to enable their sexual abuse either online or in real life.

As technology has evolved to become part of our everyday lives, our awareness of ways it can be used to bully, threaten, and abuse has grown as well. Just over the past few decades, terms such as “sextortion,” “revenge porn,” and “doxxing” have entered the public lexicon. Other examples of common abusive behaviors online include creating or posting child sexual abuse materials, also known as child exploitive material, online harassment, or posting unsolicited explicit images.

These examples represent just a fraction of the ways that consent and boundaries can be violated online. Some acts are identified as criminal under the law, others violate policies put in place by online platforms (like Zoom or Instagram), while still too many acts of sexual violence online are normalized and not taken seriously.

Sometimes violence is initiated online and then takes place in person, and in other instances, the violence takes place entirely behind screens. Even though the abuse occurs virtually, the impact on the victim, their loved ones, and the community can be just as harmful as sexual violence committed in person. Virtual abuse has led to an increase in mental health issues, including depression and increased numbers of suicide attempts.

The reality is that online sexual abuse is influenced by the same attitudes and beliefs that lead to sexual violence committed in person. These shared risk factors include social norms that directly or indirectly condone violence; traditional harmful ideas about masculinity; and attitudes that devalue and degrade women, members of the LGBTQIA community, people of color, people with disabilities, and other marginalized communities. A safe online space is one that is inclusive, where everyone is treated with respect and dignity.

LOCAL IMPACT:

Preventing online sexual violence and child abuse requires addressing factors at all levels of the social ecology—the individual, relational, community, and societal levels.

In Tempe in 2022, 228 cases of sexual violence and approximately 217 cases of child abuse, both sexual and physical abuse, were reported. This is a problem that exists in Tempe, and must continue to be addressed in Tempe, in order to improve the lives of our citizens.

BEST COMMUNITY PRACTICES FOR FIGHTING ONLINE SEXUAL AND CHILD ABUSE:

Support safe online spaces — where harassment, assault, and abuse are taken seriously and have no place.

Learn about the values, skills, and actions to support communities that thrive online and offline.

Intervening when we see harmful content and behaviors.

Recognize and respect others' boundaries by practicing online consent.

CURRENT CITY OF TEMPE PRACTICES:

The City of Tempe incorporates many of these best practices through the actions of the Police Department, Community Health and Human Services Department, and Care 7, which provides information to families about the risks of social media.

TFJC AND STAFF ACTION:

The Tempe Family Justice Commission is committed to furthering these initiatives by supporting the Family Advocacy Center and by being supportive of victims of these crimes.

RECOMMENDATIONS:

Mayor and Council can support these actions in the following ways:

1. Air sexual assault awareness and child abuse awareness videos on Channel 11, in support of best practices.
2. Post applicable graphics on city social media in support of best practices.

3. Discuss these issues both officially and in casual conversation
4. Issue a city proclamation acknowledging this month-long event.
5. Display a teal light on city hall in honor of this month-long event.
6. Continue to support the Family Advocacy Center where individuals will have a safe place to access trauma-sensitive services from trained professionals responding to the needs of victims of crime, and importantly to provide information and services locally to prevent these crimes. Staff welcomes Mayor and Council to tour the FAC. This can be coordinated through your Council Aide and Victim Services Coordinator Anastasia Stinchfield (Anastasia_stinchfield@tempe.gov).

Resources:

<https://www.nsvrc.org/saam>

<https://www.end-violence.org/safe-online>

MEMORANDUM



TO: Mayor and Council
FROM: Grace DeMonte Kelly, Energy Manager
THROUGH: Shelly Seyler, Interim Engineering & Transportation Director
Julian Dresang, Deputy Engineering & Transportation Director
DATE: March 30, 2023
SUBJECT: SRP Biomass Partnership

Background:

Salt River Project (SRP) is partnering with Tempe and several other valley cities to purchase renewable energy from a biomass facility to help with forest thinning, forest restoration and watershed protection. Benefits to cities include carbon reduction, water quality, infrastructure protection and renewable energy credits. This is an update to a previous Council Friday Packet memo, dated June 17, 2022.

Investment:

SRP is partnering with Tempe, Phoenix, Mesa, Scottsdale, and Gilbert to share costs on a new Power Purchase Agreement with Novo Biopower to purchase 14 Mega-Watts (MW) of renewable biomass annually from their biomass power plant in Snowflake, Arizona. The agreement is for 10.5 years. Tempe's annual contribution would be \$80,000. The Sustainability and Resilience Office Staff and Engineering Staff worked with SRP to arrange to pay with a line-item surcharge placed on large City electric accounts for ten years to contribute to this program. This will ensure that the City of Tempe is able to contribute to the SRP program through our energy cost savings and will not need to make a separate budget request to participate in this program.

More Information:

The benefits of this investment include carbon reduction, water quality and infrastructure protection and renewable energy credits. For more information on the partnership and benefits, attached are two documents:

- Biomass Partnership and Forest Restoration – An Overview
- Summary of Partnership Benefits

Next Steps:

City Staff from the Sustainability and Resilience Office, Engineering & Transportation, Municipal Utilities, and the City Attorney's office have reviewed the agreement between SRP and the City of Tempe. City staff will bring the SRP agreement to Council for review at the Regular Council Meeting on May 4, 2023.

Please contact Grace DeMonte Kelly grace_kelly@tempe.gov with any questions about the program or the agreement.

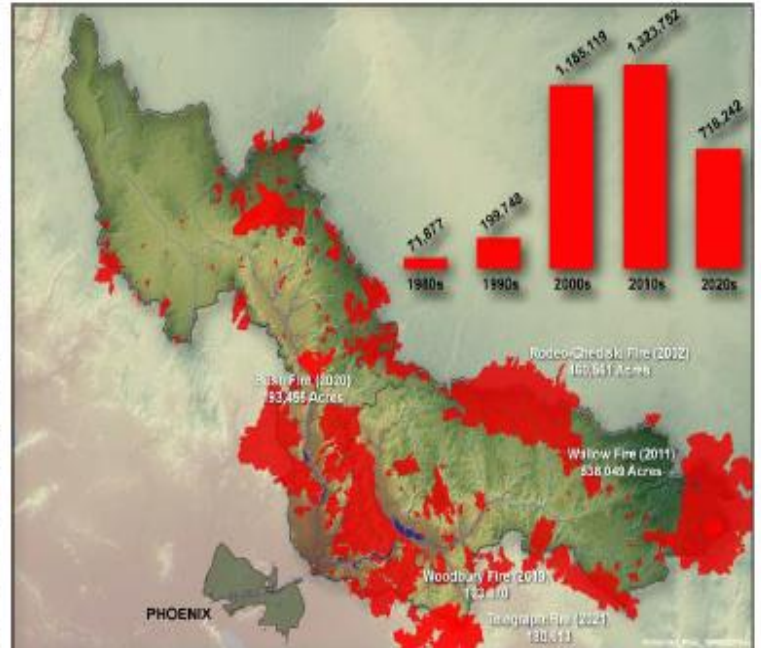
Attachments:

Biomass Partnership and Forest Restoration – An Overview
Summary of Partnership Benefits

Biomass Partnership and Forest Restoration – An Overview

Forest Restoration Overview

The century-long exclusion of frequent, low-intensity wildfires has led to striking and rapid changes in Arizona's forested ecosystems. Baseline forest conditions have resulted in an increased number of trees; increased volume of small-diameter trees, both alive and dead; increased susceptibility to insect and disease epidemics. Unhealthy and overgrown forests on the NFS lands are fuel for large catastrophic wildfires that affect the health of the Salt River, Verde River and East Clear Creek watersheds. Large-scale, high-severity wildfires make average precipitation events extremely destructive; accelerating flood flows and toxic runoff, eroding soils, depositing sediment into water storage reservoirs, and ultimately causing millions of dollars in infrastructure damage and reduced water storage capacity.



Forest Restoration Benefits

Restoring Arizona forests to a more natural condition through thinning provides a multitude of benefits including:

- Protecting communities, property, and lives from wildfires.
- Preventing large-scale wildfire that emits air pollutants and carbon.
- Protecting water supplies, water infrastructure, long-term water storage, and prevents against degraded water quality.
- Increasing forest resiliency to natural wildfire, insects, disease, and the effects of climate change.
- Protecting endangered and threatened species and their habitat.
- Protecting recreation, tourism, and economic opportunities.



Thinned Pine Forest

Biomass Partnership and Forest Restoration – An Overview

Biomass Partnership Overview

The Biomass Partnership is an opportunity for Valley municipalities, to partner with SRP to support forest thinning projects in the Salt, Verde River, and East Clear Creek watersheds. SRP has partnered with five municipalities to support a long-term contract to continue purchasing renewable energy from Novo BioPower, a biomass power plant in Snowflake, Arizona. The 10.5-year purchase power agreement with Novo BioPower will use wood chips from forest thinning projects on National Forest System (NFS) lands in the Salt, Verde River, and East Clear Creek watersheds. The SRP purchased biomass energy will support approximately 80,000 acres of forest thinning over the next 10 years while providing renewable power for more than 3,000 SRP customers.

Biomass Partnership Benefits

The partnership highlights four quantified annual benefits that are directly attributable to the partnership agreement. Those four benefits are Watershed Restoration, Carbon, Acres Treated, and Renewable Energy Credits (RECs). These benefits are directly attributable because SRP delivers water to the City and that water supply comes from the three forested watersheds that need to be thinned. Forest thinning also generates large amounts of wood chips that need to be disposed of. Biomass energy is the most cost-effective, efficient, and beneficial way to dispose of wood chips. Without the biomass power plant taking the woodchips the forests could not be thinned at a meaningful scale to protect people and water supplies. Generating biomass energy means renewable energy credits are created, acres of forests are being restored, which then produces watershed restoration benefits and positive climate benefits. The estimated benefits for the City of Tempe are presented on the attached Summary of Benefits. Every year, SRP will provide an annual report to the City of Tempe that quantifies and monetizes the Biomass Partnership benefits associated with the City's annual contribution.



In addition to the four annual benefits, there are ancillary benefits that the City of Tempe can claim such as the benefits associated with protecting communities and infrastructure. Forest thinning projects greatly reduce the risk of catastrophic wildfires that damage critical infrastructure, including water and power infrastructure. These benefits are monetized and explained further in the attached Summary of Benefits.



Finally, there are several other important benefits associated with this partnership that are not quantifiable or monetized but are still important benefits that provide a comprehensive perspective. These benefits, presented in more detail on the following pages, include restored forest resiliency, water quality protection, Mexican spotted owl and habitat protection, fisheries/wildlife protection, and recreation protection.

Summary of Partnership Benefits City of Tempe

Overview

The Biomass Partnership Proposal with SRP and the City of Tempe highlighted four quantified and monetized annual benefits that are directly attributable to the partnership agreement. Those four benefits are Watershed Restoration Benefits, Carbon Benefits, Acres Treated, and Renewable Energy Credits (RECs). These benefits are only for illustrative purposes and will change depending on Novo BioPower’s annual energy generation that is reported to SRP in annual facility report and SRP water/ carbon modeling results.

Tempe Contribution (%)	Tempe Contribution (\$)	Water Benefits (AF)	Carbon Benefit (Tons CO ₂ e)	Acres Treated	RECs
2.5%	\$80,000	3	786	108	1,787
Total Annual Benefit Value	Infrastructure Protection Value	Water Benefit Value	Carbon Benefit Value	Acres Treated Value	RECs Value
\$245,887	\$167,292	\$7,800	\$7,860	\$54,000	\$8,935

In addition to the four annual benefits, there are ancillary benefits that the City of Tempe can claim such as the benefits associated with protecting the communities near Cragin infrastructure protection. These benefits are monetized and explained further below.

Finally, there are several other important benefits associated with this partnership that are not quantifiable or monetized but are still important benefits that provide a comprehensive perspective. These benefits include restored forest resiliency, water quality protection, Mexican spotted owl and habitat protection, fisheries/wildlife protection, and recreation protection.

Watershed Restoration Benefit

Multiple studies conducted in ponderosa pine forests in Northern Arizona conclude that the removal of forest cover and tree density increases water yields by decreasing evapotranspiration (ET). To understand and quantify this beneficial relationship, SRP and ASU created a hydrologic response model that quantifies the impacts of forest thinning treatments. Bonneville Environmental Foundation (BEF) and Blue Forest Conservation (BFC) have also reviewed the model. The Cragin project area will be modeled later this summer but based on the initial results, SRP is estimating that on average 235 acre-feet of water will be restored in the Cragin watershed based on 3,000 acres of thinning every year. Tempe’s contribution will restore 3 acre-feet per year in the Cragin watershed. In addition, BEF and BFC have stated that the market value of a water restoration benefit is currently \$2,600/ acre-foot.

Watershed Restoration Calculation: 3 acre-feet x \$2,600 = \$7,800 water benefit value

Carbon Benefit

Losing the forest and Cragin watershed to catastrophic wildfire would produce large amounts of carbon dioxide and other greenhouse gases that are emitted during wildfires. After a landscape is lost to

Summary of Partnership Benefits

City of Tempe

wildfire it no longer acts as a natural carbon sink for decades and turns the forest into a carbon emitter with all the dead and decaying material. This carbon sink can be lost for many years depending on the severity of the wildfire. Restoring the Cragin project area has been shown to create net positive carbon benefits.

SRP has undertaken intensive carbon modeling with the Spatial Informatics Group using the Avoided Wildfire Emissions (AWE) Accounting Methodology (now the Reduced Emissions from Megafires (REM) Methodology) currently approved by the Climate Forward carbon registry. Climate Forward is a voluntary carbon market that registers projects with net carbon benefits. This approved methodology allowed SRP to quantify carbon benefits for Cragin projects.

The modeling results show that the Cragin project has an estimated total net carbon benefit of 2,597,458 metric tons of CO₂e under the AWE (REM) methodology. Currently, forest carbon markets are valuing good forest carbon offsets at \$9-10/ a ton.

Carbon Benefit Calculation: 786 CO₂ tons x \$10/ ton = \$7,860.

Acres Treated

The partnership supports the thinning of up to 8,500 acres every year. The 8,500 acres is attributable to SRP's portion of the biomass power plant output. Tempe's contribution will help support the restoration of 108 acres/ year. The cost of thinning can vary widely across the Salt and Verde watershed. For example, the costs to thin the Cragin watershed is \$2,000/ acre. Areas that are closer to highways or forest product industry are about \$500/ acre. Steep slope areas can cost up to \$10,000/ acre. For this analysis, SRP used an average of \$500/ acre because that is the cost that SRP is currently paying to treat acres on the Verde and Salt River watersheds. If the City wanted to thin acres, this is a reasonable cost estimate for the City.

Acres Benefit Calculation: 108 acres x \$500/ acre = \$54,000

Renewable Energy Credits

The partnership supports the continuation of the Novo BioPower facility that on averages provides SRP with 114,000 MWh of electricity every year (at a 93% capacity factor). Tempe's contribution to the partnership supports 1,787 MWh of electricity every year. Each MWh of renewable energy is associated with a renewable energy credit (REC). Therefore, SRP would retire 1,787 RECs/ year on the City's behalf. SRP offers customers a price of \$5/ REC.

REC Value Calculation: 1,787 RECs x \$5 = \$8,935

Cragin Infrastructure Protection

There are 16 Arizona Communities-At-Risk that are within 11 miles of the Cragin project area. Within the East Clear Creek watershed there are approximately 17,000 acres of Wildland Urban Interface (WUI) sites and values at risk. There are over 15 different physical infrastructure assets that are also at risk if wildfire spreads throughout the East Clear Creek watershed. A wildfire could damage their infrastructure but also render water unavailable for future years. In a 2018 study carried out by the

Summary of Partnership Benefits City of Tempe

Electric Power Research Institute (EPRI) it was determined that the cost of repairing the damage from an uncharacteristic wildfire on the East Clear Creek watershed would be \$293 million. SRP's portion was approximately \$98M. In comparison, the estimated cost to treat the entire East Clear Creek watershed (63,634 acres) and reduce the risk of uncharacteristic wildfire is about \$30 - \$60 million. (EPRI, 2018)

Cragin Community and Infrastructure Protection Benefit: \$98,609,600/ 63,634 acres in Cragin Watershed = \$1549/ acre. \$1549 x 108 acres = \$167,292

Restored Forest Resiliency

The century-long exclusion of frequent, low-intensity wildfires has led to striking and rapid changes in the Cragin project area's forested ecosystems. Baseline forest conditions have resulted in an increased number of trees; increased volume of small-diameter trees, both alive and dead; increased susceptibility to insect and disease epidemics. The overgrowth of small diameter trees has changed forest conditions causing frequent, low-intensity surface fires to increasingly larger crown fires. The Cragin project area consists of dense stands of ponderosa pine and mixed conifer forests, with tree densities ranging from 500 to 1,000 trees per acre on about 65 percent of the project area. Desired conditions, which are the future conditions of a healthy forest, will have an average of 100 trees per acre. Cragin's current project area conditions are susceptible to devastating crown fires.

After implementation of removing these hazardous fuels by employing thinning treatments, a variety of forest conditions would exist across the Cragin project area. The Cragin project area would be diverse with groups and patches of variable tree densities, including dense groups of trees and small areas of scattered individual trees. Old trees and old forest structure would be sustained over time across the landscape. Canopy openings within the forest would be common and support a growing diverse species composition and productive grass/ forb/ shrub community. The desired condition for the Cragin project area will allow for frequent low-severity surface fires that are natural to the project area. Overall, the project area would be resilient to disturbance, including insects, disease, wildfire, climate change, and would be sustainable through at least several generations of trees.

Water Quality Protection

The East Clear Creek watershed area is a prized ecosystem in Arizona because of the unique water landscape that includes 26 miles of streams, 47 springs, 986 acres of riparian land, and four wetlands. Wildfires can result in an increase in nutrient (i.e., nitrogen and phosphorus) loading to water bodies resulting in an increase in algal growth and reduction in dissolved oxygen leading to fish kill. Runoff from wildfires contains heightened levels of nitrates, phosphates, heavy metals, total organics, and turbidity (CWPP EA, 2018). For example, the 2002 Rodeo-Chediski fire produced significant post-wildfire increases in calcium, magnesium, potassium, sulfate, phosphorus, and nitrogen. "The increased calcium and sulfur concentrations were about half of the U.S. Environmental Protection Agency's (EPA) drinking water quality standards, but the values for magnesium, potassium phosphorus, and nitrogen rose to 2 times, 5 times, 390 times, and 22 times, respectively, above EPA drinking water quality standards." In addition, there were significant increases in lead, iron, copper, and arsenic levels post Rodeo-Chediski fire. "The values [were] very high and dangerous, constituting of about 460%, 3000%, 300%, and 6850%

Summary of Partnership Benefits City of Tempe

of the U.S. EPA drinking water standards for lead, iron, copper, and arsenic, respectively.” Finally, “conductivity and turbidity levels increased by 422% and 1,020,000% above the U.S. EPA standards, respectively.” (Teclé, A. and Neary, D., 2015) This type of water quality effects could be seen at the Cragin project and the CWPP if a catastrophic wildfire were to occur.

Mexican Spotted Owl and Habitat Protection

The extent of the threatened MSO is widespread within East Clear Creek watershed and specifically the Cragin project area. The Cragin project area contains dozens of MSO Protected Area Core (PAC) and 14,953 acres of MSO recovery habitat. PACs conserve core use areas for the owls, which include the nest site, several roost sites, and the most proximal and highly used foraging areas. Recovery habitat is areas that are critical to the species and are outside the PACs. The greatest threat to survival of these species is catastrophic wildfire. The planned thinning activities for the Cragin project will ensure that MSO habitat characteristics are maintained, including retaining a larger tree basal area, all dead standing trees (snags), and hardwood trees species. The Cragin project includes treatments to emphasize sustainable ecological function and a return toward natural fire regimes, which are more compatible with maintenance of MSO habitat conditions and the long-term recovery goals of the species.

Recreation Protection

The East Clear Creek Watershed and C.C. Cragin Reservoir contribute a substantial amount of water to Arizona’s waterways, which provide opportunities for a thriving economic sector. Based on estimates calculated by the National Audubon Society, \$2 billion is generated annually from recreation on or along rivers, lakes, and streams in Coconino County alone. Statewide, water-based recreation as an industry ranks above mining and golf in terms of total economic output to the state, contributing \$7.1 billion to Arizona’s GDP. Additionally, 329,000 Arizona residents participate in outdoor recreation on or along waterways in Coconino County which generates 17,000 jobs. These recreation activities include boating, hiking, fishing, skiing, swimming, and camping. Not only are these activities beneficial to Arizona’s economy, but they are also fulfilling activities for the individuals participating in them, making them happier and healthier. Investing in the Cragin Project provides the protection necessary to keep our waterways safe and continue attracting thousands of people to the area to enjoy recreational opportunities.

COMMUNITY SERVICES UPDATE

March 30, 2023

COMMUNITY PARTNERS AT WESTSIDE AND NORTH TEMPE MULTIGEN CENTERS

Services and programs provided at the **Westside and North Tempe Multigenerational Centers** are delivered in concert with community partners. These organizations run their operations at our facilities and support Tempe's mission.

Community Partners include:

The Boys and Girls Club of the Valley - an after-school program for the community and the surrounding schools. The Boys and Girls Club also offer all day programming during the school breaks and over summer break.

Maricopa County Head Start - offers early education programming for children ages 1 to 5 years . Early Head Start (ages 1-3) and Head Start (ages 3-5) are family centered programming and are offered at no cost to qualifying families.

Neighborhood Associations - host their meetings at the centers, such as the **North Tempe Neighborhood Association** at the North Tempe Multigenerational Center

Tempe Community Action Agency (TCAA) - TCAA provides a twice weekly Senior Lunch Program at the North Tempe Multigen Center as well as a weekday Home Delivered Meal Program to seniors and disabled adults in Tempe and South Scottsdale.

Our partners at the centers help reach community members that might not normally use the facilities. Working together, we provide enhanced services and opportunities that help make Tempe a great place to play, learn, live, and grow. The facilities are a community hub, and the partners help contribute to our users quality of life by being welcoming places that people come for friendship, assistance, wellness and a variety of other positive experiences. The support of the community to our partners and the strong Tempe City Council support allows both Westside and North Tempe Multigenerational Centers to play a pivotal role in the lives of many.



3.16 Satisfaction with City recreation centers

3.17 Satisfaction with Community Services Programs

CONTINUED ON PAGE 2

COMMUNITY SERVICES UPDATE

March 30, 2023



ABOVE: Seniors enjoying lunch provided by TCAA

LEFT: Child enjoying time at HeadStart



We are so grateful for City of Tempe's dedication to creating a thriving community and enhancing the quality of life for Tempe residents. Through our partnership with City of Tempe, we have been able to leverage our respective strengths to drive positive change and make a meaningful impact for school aged youth and teens. We are excited about the possibilities for the future as we continue our partnership and serve those who need us most, together." – Marcia Mintz: President & CEO Boys & Girls Club of the Valley