

**CITY OF SCOTTSDALE JURISDICTIONAL PROJECT SUMMARY**

Updated by: C. Ashley Couch, P.E., CFM, Drainage & Flood Control Program Manager/Floodplain Administrator. Date: 10/15/2021

| Table 6-8-22: Mitigation actions and projects and implementation strategy for Scottsdale |  |                     |                                     |                |                         |   |                             |   |   |   |
|--|--|---------------------|-------------------------------------|----------------|-------------------------|---|-----------------------------|---|---|---|
| Mitigation Action/Project  |  |                     |                                     |                | Implementation Strategy |   |                             |   |   | Comments for 2021 Informal Update   |
| ID No.   | Description  | Hazard(s) Mitigated | Community Assets Mitigated (Ex/New) | Estimated Cost | Priority Ranking        | Planning Mechanism(s) for Implementation                            | Anticipated Completion Date | Primary Agency / Job Title Responsible for Implementation | Funding Source(s)   |   |
| 1  | Review, update and/or augment flood control ordinances to provide a greater level of protection than the minimum required by the NFIP.   | Flood               | Existing                            | Staff Time     | Medium                  | Stormwater and Floodplain Management Ordinance and NFIP regulations | Ongoing                     | Planning and Development Services                         | General Fund  | Ordinance update completed and adopted by the Scottsdale City Council in 2016. Reviews are conducted annually.  |
| 2  | Identify and map flood hazards in areas expected to grow or develop in the foreseeable future.   | Flood               | Existing                            | Staff Time     | Medium                  | Stormwater and Floodplain Management Ordinance and NFIP regulations | Ongoing                     | Planning and Development Services                         | General Fund  | This is an ongoing project. Several areas in the north and central regions of the City of Scottsdale have been evaluated and have been re-delineated to more accurately reflect current conditions.   |
| 3  | <del>Implement a water harvesting program through the location, design and construction of dual-functioning stormwater retention facilities with enhanced recharge elements designed into the basin, as a part of maintaining a Drought Management Plan in conjunction with SRP &amp; APS to lessen the impact of drought.</del> | Drought             | Both                                | \$6,442,200    | High                    | Drought Management Plan   | Ongoing                     | Water Resources   | City Budget   | In 2016 this project was studied and determined to be not feasible. Project to be deleted from plan.  |
| 4  | UPPER CAMELBACK WASH WATERSHED Construct channel improvements, storm drains, stormwater storage basins, and culverts to provide 100-year structural flood protection to nearly 500 structures in the vicinity of 92nd St to 96th St from Shea Blvd. to Sweetwater Ave.   | Flood               | Both                                | \$19,189,269   | Medium                  | Drainage and Flood Control Capital Improvement Plan                 | Completed in April 2015     | Planning and Development Services and Public Works        | Bond 2000 and FCDMC   | This project is 100% completed, and in maintenance phase.   |
| 5  | GRANITE REEF WATERSHED Construct channel improvements, storm drain improvements, and stormwater storage basins to provide 100-year flood protection to hundreds of structures in the vicinity of Granite Reef Road between the Arizona Canal and the Salt River. .   | Flood               | Existing                            | \$51,055,600   | High                    | Drainage and Flood Control Capital Improvement Plan                 | December 2024               | Planning and Development Services and Public Works        | Bond 2000 + General Fund + FCDMC + SRPMIC + Stormwater Fees | Phases 1A, 1B, and 1C are complete. Phase 2A is in final design phase. Phase 2B will move into final design in FY 22/23 and construction in FY 23/24. Information about this project can be found at: <a href="https://www.scottsdaleaz.gov/construction/project-list/granite-reef-watershed-drainage-and-flood-control-improvement">https://www.scottsdaleaz.gov/construction/project-list/granite-reef-watershed-drainage-and-flood-control-improvement</a> |
| 6  | CROSSROADS EAST PHASE 1: Drainage projects and transportation repair projects.   | Flood               | Both                                | \$15,094,034   | Medium                  | Crossroads East Master Plan   | Completed in 2020           | Planning and Development Services and Public Works        | Stormwater Fees and Developer Contributions                 | This project is 100% completed, and in maintenance phase.   |

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| 7  | As a part of the Automated Flood Warning System, install automated flood barriers at low water crossings to discourage motorists from entering flooded road crossings.  | Flood               | Existing                            | Staff Time     | High                    | Automated Flood Warning System           | Ongoing                     | Planning and Development Services, Emergency Services, and Public Works | General Fund      | No activity. This project has been discussed and public/private partnerships have been considered to implement automated system. To date no funding has been allocated to accomplish this so the project has not moved forward as of this update.                            |
| 8  | As a part of the Automated Flood Warning System, install stream depth indicators at low water crossings to communicate the risk of entering flooded roadway crossings and provide a visual warning to motorists of flood conditions at the crossing location. | Flood               | Existing                            | Staff Time     | High                    | Automated Flood Warning System           | Ongoing                     | Planning and Development Services, Emergency Services, and Public Works | General Fund      | There are depth indicators installed in multiple flood-prone roadways throughout the City of Scottsdale. There may be additional opportunities to enhance the deployment of these features and will need to be further assessed to determine the most appropriate locations. |
| 9  | Review and evaluate current weed control ordinance to ensure adequate provisions are in place to protect properties along the wild land urban interface.  | Wildfire            | Existing                            | Staff Time     | High                    | Weed Control Ordinance                   | Ongoing                     | Fire Department   | General Fund      | The Weed Control Ordinance was last updated and enacted in 2016. This remains an ongoing project to assess the impact and effectiveness of the ordinance.  |
| 10   | Encourage fire buffer zones along wild land urban interface areas to mitigate damages due to wildfire.  | Wildfire            | Existing                            | Staff Time     | High                    | None                                     | Ongoing                     | Fire Department   | General Fund      | This is being accomplished through the active FireWise Program implemented within Scottsdale. This is an ongoing project in place by the Scottsdale Fire Department, and reported through the Community Wildfire Protection Plan   |
| 11   | Perform Hazardous Material Response Team & Fire Code Inspection on occupancies with Hazardous Materials to ensure safe storage and use of those HAZMATS.  | Hazardous Materials | Existing                            | Ongoing        | High                    | None                                     | Ongoing                     | Fire Department   | General Fund      | Scottsdale Fire Department has an active and credentialed Hazardous Materials Team, and conducts HazMat inspections through its Fire and Life Safety Division.   |
| 12   | Develop partnerships to locate and operate hydration stations during extreme heat events to reduce the risk to Scottsdale citizens.   | Drought             | Existing                            | Ongoing        | High                    | Drought Management Plan                  | Ongoing                     | Emergency Management  | General Fund      | Partnerships have been developed with the Scottsdale Parks and Recreation Division to open and operate cooling centers within the Community Centers. These centers will be activated when needed during times of extreme conditions warranting opening of such a center.     |
| 13   | Review/Update the city's Drought Management Plan's conservation requirements to evaluate drought severity triggers and their enforcement.   | Drought             | Existing                            | Ongoing        | High                    | Drought Management Plan                  | Ongoing                     | Water   | General Fund      | The City of Scottsdale Drought Management Plan was adopted by the Scottsdale City Council in 2015 and is on an annual review cycle.  |

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| 14   | Use newsletters, flyers, utility bill inserts, website notices, radio and television announcements, social media and newspaper articles to educate the public about hazards impacting the county and city, and how to be prepared in the case of a disaster event. | All Hazards   | Existing                            | Ongoing        | High                    | None  | Ongoing                     | Emergency Management<br>City Communications               | General Fund      | Since 2011 the City of Scottsdale has conducted Community Emergency Response Team (CERT) training for Scottsdale residents. This program consists of a 21-hours training course following FEMA CERT Basic Training curriculum to help residents become better prepared and more resilient should disaster strike. This training has been traditionally offered two times per year.<br><br>Beginning the 3 <sup>rd</sup> quarter of 2018 the Office of Emergency Management implemented a 2-hour Ready Scottsdale program to help educate Scottsdale residents in the identified threats and hazards existing in the city and discuss how to become better prepared. This training has been offered monthly and has been well-accepted by the residents. |
| 15   | Continue expanding our WebEOC software system to track incidents and resources in the event of an emergency.   | All Hazards   | Existing                            | Ongoing        | High                    | None  | Ongoing                     | Emergency Management                                      | General Fund      | The City of Scottsdale currently uses WebEOC Disaster Information Management System as a means for maintaining information in the Emergency Operations Center. In the past year the Scottsdale Office of Emergency Management has expanded the use of WebEOC by developing a Department Operating Center (DOC) concept of use. Currently the single DOC using WebEOC is Scottsdale Water, who has trained with the system, and has used it during a joint EOC / DOC functional exercise.  |
| 16   | Promote the use of weather radios, especially in schools, hospitals and other locations where people congregate to inform them of the approach of severe weather events.   | Dam Inundation, Extreme Heat, Flood, Levee Failure, Severe Wind | Existing                            | Ongoing        | High                    | None  | Ongoing                     | Emergency Management                                      | General Fund      | Continue to advocate for purchase and use of NOAA Weather Radios, and currently equipped the Scottsdale Police Dispatch Center and Emergency Operations Center with S.A.M.E Weather Radio / All-Hazard Alert Radios. The Scottsdale Office of Emergency Management has included information about and advocating the use of NOAA Weather Radios during Community Emergency Response Team and Ready Scottsdale training events.  |
| 17   | Perform a public information campaign at the onset of the extreme heat season to help educate the general public on ways to remain safe during periods of extreme heat. Maintain and continue expanding our community emergency response team (CERT) training.     | Extreme Heat  | Existing                            | Ongoing        | High                    | Community Emergency Response Team (CERT) program. | Ongoing                     | Emergency Management<br>City Communications               | General Fund      | The Scottsdale Office of Emergency Management has included information about extreme heat issues during Community Emergency Response Team and Ready Scottsdale training events.   |
| 18   | Identify, stock and communicate locations within the community that can serve as cooling stations during times of extreme heat.  | Extreme Heat  | Existing                            | Ongoing        | High                    | Community Emergency Response Team (CERT) program. | Ongoing                     | Emergency Management                                      | General Fund      | These centers have been identified in the City of Scottsdale Emergency Operations Plan. This plan was activated during an excessive heat event coupled with a power outage during the summer of 2015.   |

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| 19   | Include addressing subsidence and fissure risk as a regular part of the land development and public works projects review and permitting.  | Fissure, Subsidence | Both                                | Staff          | Low                     | Development Review                       | Ongoing                           | Planning and Development Services and Public Works        | General Fund      | This is an ongoing endeavor and has been positively impacted by Scottsdale Water in their selective pumping from wells in the city.  |
| 20   | Coordinate with state and federal agencies (USGS, AZGS, ADWR, etc.) to study and map fissure activity in critical or key areas of the community so that effective mitigation or avoidance strategies can be implemented.   | Fissure, Subsidence | Both                                | Staff          | Low                     | None                                     | Ongoing                           | Planning and Development Services and Public Works        | General Fund      | The only fissure area in the City of Scottsdale is near Taliesin West and Ancala. There is no active development activity in that area, nor is any anticipated. Moreover, starting quite a few years ago, we have a net zero groundwater budget in Scottsdale. What that means is that the amount of groundwater withdrawn in Scottsdale is, on average, replenished by a combination of infiltration of precipitation and injection of treated wastewater into the ground. Therefore, the water table in Scottsdale should be relatively stable over time, although it would be subject to regular fluctuations due to natural drought and wet cycles.  |
| 21   | Develop a community-wide, stormwater master plan and floodplain management plan that will analyze and identify problem flooding areas and propose long-term mitigation alternatives designed to reduce or eliminate the flood problems. The program will also identify and map flood hazards in areas expected to grow or develop in the foreseeable future. | Flood               | Existing                            | \$1.5 million  | Low                     | Stormwater Master Plan                   | 3 Years after Funding Is Obtained | Planning and Development Services and Public Works        | General Fund      | The Drainage and Flood Control Program Manager has developed a multi-year Stormwater Master Plan that has been proposed to city management. Additionally, the Drainage and Flood Control Program Manager has several projects outlined, with area maps, outlining potential problem areas and proposing mitigation measures to alleviate the threat. The Drainage and Flood Control Program Manager has also approved a scope and fee for an on-call stormwater engineering consultant to develop a CRS-compliant Floodplain Management Plan that will supplement the current Multi-Jurisdictional Hazard Mitigation Plan. A notice-to-proceed will be given as soon as Scottsdale City Council approves funding. The Drainage and Flood Control Program Manager has discussed financial participation in the development of a Floodplain Management Plan with FEMA, who is generally supportive of funding \$75,000 toward the total cost of \$100,000. The Drainage and Flood Control Program Manager will ask FEMA to budget and program its funding as soon as the Scottsdale City Council approves \$25,000 of funding for its share. |