

July 28, 2017

## City of Tucson Benefits from the Ruthrauff Basin Management Study

This plan assists City of Tucson development community and floodplain management staff understand current flood risks and potential types and locations of flood mitigation projects within the Ruthrauff Watershed. Regional benefits include better hydrologic mapping and flood data to clarify current conditions and flood risks within the study area of this watershed. The proposed LOMR, which is in final stages of FEMA review, is proposed to remove over a hundred structures from the high-risk floodplain, thereby lowering flood insurance costs. Additional specific benefits are listed below:

### **Future Development Benefits**

The Ruthrauff Basin Management Plan and associated data may be used by consultants and developers and City of Tucson floodplain management review staff for the following beneficial purposes:

- ✓ This study provides current up-to-date hydrologic flood data including current flood limits, flowrates, and water surface information for the jurisdictional flood event.
- ✓ The availability of new flood data alleviates some time and cost burden for developers and consultants when preparing the hydrology portion of the drainage reports for a proposed project within this watershed. There will be less drainage documentation required for project submittals, as some of the work has been done with this study.
- ✓ New flood mapping provides updated areas of flood risk to prospective projects are designed accordingly.

### **City of Tucson Floodplain Management Benefits**

- ✓ Future flood mitigation project alternatives have been scoped out using the flood study and analyzed for potential future regional or CIP projects.
- ✓ Report and map data will be available at the PDS and TDOT Engineering Review offices.
- ✓ The Ruthrauff Watershed currently has no ALERT rain gauges within the City limits. Locations are being considered by the Pima County Regional Flood

Control District with cooperation with the City Stormwater Engineering staff to determine feasible locations. Providing additional rain gauges within the watershed helps to determine precipitation rates for specific locations within the watershed and adds valuable data to the ALERT Flood Warning system that the Pima County Regional Flood Control District maintains for the Pima County communities including the City of Tucson. Pima County ALERT system map: <https://alertmap.rfcd.pima.gov/Gmap/Gmap.html>

- ✓ This study provides more accurate and current information to address property owners' inquiries concerning the updated areas of flood risk.
- ✓ This plan provides avenues for reduced flood hazard risks and associated costs (repair, mitigation, insurance, etc.).

## Resources

City staff can clarify the drainage documentation required for project submittals on case-by-case basis, taking into consideration the study data. Ruthrauff Basin Management Study data will be available after adoption at 201 N Stone Av, Tucson Arizona 85701:

- ◆ City of Tucson Transportation Engineering Division Engineering Counter (4<sup>th</sup> floor)
- ◆ City of Tucson Planning & Development Services Department (1<sup>st</sup> floor)