

Paradise Creek Flood Hazard Mitigation Goals

The City's grant funding agreement states that flood hazard mitigation alternatives will focus on approaches such as:

- a. Near-channel floodplain storage expansion locations through acquisition and restoration of prior disturbed riparian areas.
- b. Stream channel conveyance improvements such as removal of flow obstructions.
- c. Different approaches to stormwater management, such as enhanced stormwater detention facilities or standards.
- d. Additional mitigation elements as deemed necessary based on H & H Study results.

Well-articulated planning goals provide a framework for developing and evaluating flood hazard mitigation alternatives and selecting the preferred alternative. The criteria used to evaluate flood mitigation alternatives should tie back to the established goals. Therefore, the preferred alternative should be composed of mitigation elements that are consistent with as many established goals as feasible given considerations such as permitting limitations, public/political support, affordability, desired implementation timeframes, etc. However, some goals may carry more weight than others during the alternative evaluation process.

For the Paradise Creek Flood Hazard Mitigation Project, Aspect recommends a set of concise goal statements that capture the City's desired inclusive and multi-objective flood mitigation and management approach as well as commitments made in the grant funding agreement. A recommended set of mitigation goal statements is below:

- ✓ **Goal 1** – Develop flood hazard mitigation alternatives that include green Infrastructure elements such as riparian and floodplain enhancements or bioengineered features that also improve water quality and fish and wildlife habitat.
- ✓ **Goal 2** – Select a preferred mitigation alternative that maintains access to/from critical infrastructure and facilities and maintains emergency vehicle access to all inhabited portions of the City during flood events.
- ✓ **Goal 3** – Select a preferred alternative that maximizes effectiveness while minimizing public disruptions. Effectiveness will generally be judged based on the predicted reduction of flooded public and private structures and infrastructure and the associated level of damages.
- ✓ **Goal 4** – Select a preferred alternative that has a high level of public and agency support.
- ✓ **Goal 5** – Select a preferred alternative that provides or enhances public recreation and education opportunities.
- ✓ **Goal 6** – Select a preferred mitigation alternative with a high certainty of successful permitting.
- ✓ **Goal 7** – Select a preferred mitigation alternative that minimizes ongoing operation and maintenance costs and reduces future emergency management costs.
- ✓ **Goal 8** – Select a preferred mitigation alternative that is “affordable” with a high economic benefit to cost ratio that opens the door to grant funding to support implementation.