Upper Penitencia Creek Flood Protection Project
Flood Risk Reduction, Water Supply & Creek Habitat Benefits

Public Meeting
May 15th, 2019
6:30 – 8:30 pm
Agenda

- Check-in and refreshments
- Welcome & Introductions
- Upper Penitencia Creek Project Presentation
- Community Q & A
- Public Review – Alternatives Poster Boards
- Public Shares their Input
- Next Steps
- End Meeting, Thank You!
Multi-Benefit Project

- Flood Risk Reduction
- Ecological Restoration
- Water Supply
- Recreation*

*Per coordination w/ City, County, & Trail stakeholder agencies
Upper Penitencia Creek Project Presentation

1. Problem Definition
2. Public Input
3. Alternatives
4. Reach by Reach Description
5. Public Q & A
6. Next Steps
PROBLEM DEFINITION & OPPORTUNITIES
Problem Definition & Opportunities

**Problems/Constraints**
- Flood Risk
- Ecological
- Maintenance
- Water Supply
- Coyote Creek

**Opportunities**
- Ecological Restoration
- Recreation
- Coyote Creek Project
- Aesthetics
Public Input
Public Input

- October 2, 2018 Meeting

- Existing - What does the public value?
  - Riparian habitat (plus minimal concrete)
  - Aesthetic value
  - Open space and trail
  - Flood protection
  - Water recharge ponds (Overfelt, creek parks)
Public Input (Cont’d)

- **Conceptual Alternatives – PROS**
  - Riparian corridor preservation/enhancement
  - Recreational opportunities
  - Flood risk reduction
  - Fish habitat – Noble diversion removal

- **Conceptual Alternatives – CONS**
  - Coyote Confluence
  - Educational signage
  - Safety
  - Flood Insurance focus
  - Maintenance - dead trees
  - Do work in phases
ALTERNATIVES
Alternative Selection

- Flood protection, ecological, recreation, water supply
- Combination of Vision Concepts
  - In-Channel work – Widen, Restore, Levees
  - Off-Channel work – Detention
  - Other: floodwalls
- Collaboration – Public Land
- Public Input
- Key Constraint – Cannot Induce Flooding
Screening Level 1

- Cost

- Project Objectives: Flood protection, water supply, ecological, recreation

- Technical/Logistical Feasibility

- Major Constraint: Cannot Induce Flooding Downstream (Coyote Creek)
Screening Level 2

1. Flood Protection
2. Watershed Context
3. Ecology

5. Maintenance – minimize long term O & M

6. Water Quality & Quantity
7. Local Partner Agencies – meet partner agencies goals
8. Community Benefits – full range of benefits

10. Environmental Impacts – least damaging yet practical
Government Agencies & Guiding Documents

Local Agencies:
- Mutual Goals
- Public Land – City, County, Valley Water
- General Plan

Community:
- Recreation
- Safety/Access
- Aesthetics
- Open Space
Alternatives: Measures

- Off-stream flood detention
- Widening w/ restoration
- Levees and floodwalls
- Bypasses
Alternatives

Alternative A – 100 year Protection (Detention)
  Detention – reduce flow to 20-year

Alternative B – 50 year Protection (Detention)
  Detention – Reduce flow to 20-year

Alternative E – 100 year protection – Only Reach 1 (SCW)

Alternative H – 20 year protection

Alternative I – No Project
REACH BY REACH DESCRIPITONS
Reach 1
Reach 1: Options 1 and 2
Reach 2
Reach 2

Mabury Bypass
Reach 3
Reach 3

Highway 680 Undercrossing (critical riffle)

Groundwater Recharge Zone
Reach 3
Detention Basin – Example

Permanente Crk - Mountain View Rendering
Reach 5
Reach 6
Reach 7
Reach 7 – Option 1: Widening. Option 2: Bypass

Legend
- Proposed
- Existing

Valleymelon Creek Rd  Trail

Not to Scale
Reach 7 – Option 3: No Work (Flood Flow Interceptor)
Next Steps

Public Lands Agencies: Collaboration to develop preferred plan

Preferred Alternative: to the Board

Planning Study Report: Finalize

Design, CEQA and Permitting:
  • Contingent on Board recommendation after Coyote Creek Planning Phase completed

Construction
For more information

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