

Coyote Creek Flood Protection Project Short-term Project

SCVWD Board of Directors
August 22, 2017



Summary

Board Action – June 13, 2017 Modify the Coyote Creek Project

Act quickly

Extend project limits to Tully Road

Changed flood protection level

Short-term Flood Risk Reduction Options

Means to reduce the risk and impact of floods in short term:

- Emergency Action Plan
- Reservoir Operation Options
- Creek Management
- Structural Repairs
- Flood Barriers



Principles for Short-Term Project

No. 1: Must not increase flooding elsewhere

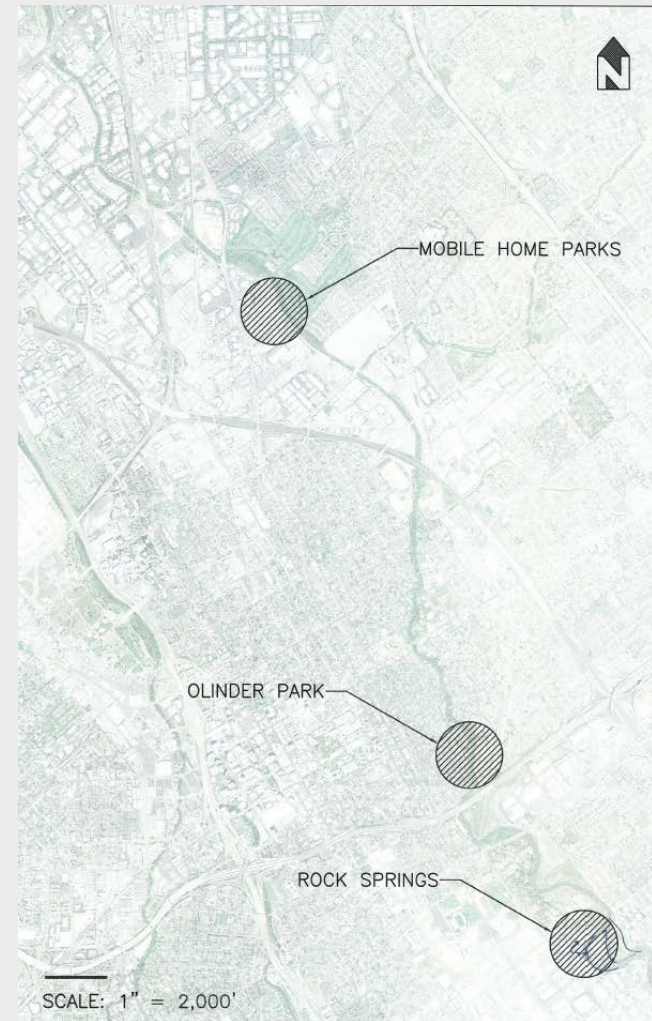
No. 2: Quickly permittable and constructible

Flooding Locations

Mobile Home Parks

Selma Olinder Park

Rock Springs



Santa Clara Valley
Water District



Attachment 3
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Mobile Home Parks

Flood Barriers

Higher levee expected to increase downstream flooding

Fails Principle 1



Golden Wheel Mobile Home Park (SC Sentinel)

Selma Olinder Park Reach

Flood Barriers

Floodwaters break out – do not return to Coyote Creek

Expected to increase downstream flooding

Fails Principle 1



Rock Springs Reach

Flood Barriers

Floodwaters contained by floodplain

Does not significantly increase flooding elsewhere

Satisfies Principles 1 and 2
(depending on option)



Rock Springs flooding (ABC7News)



Rock Springs Details – open field area

500-foot long earthen berm

Up to 5-feet tall and 40-feet wide

Berm ends at Bevin Brook Drive

License agreement from San Jose Water

Future easement



Rock Springs Details – driveway area

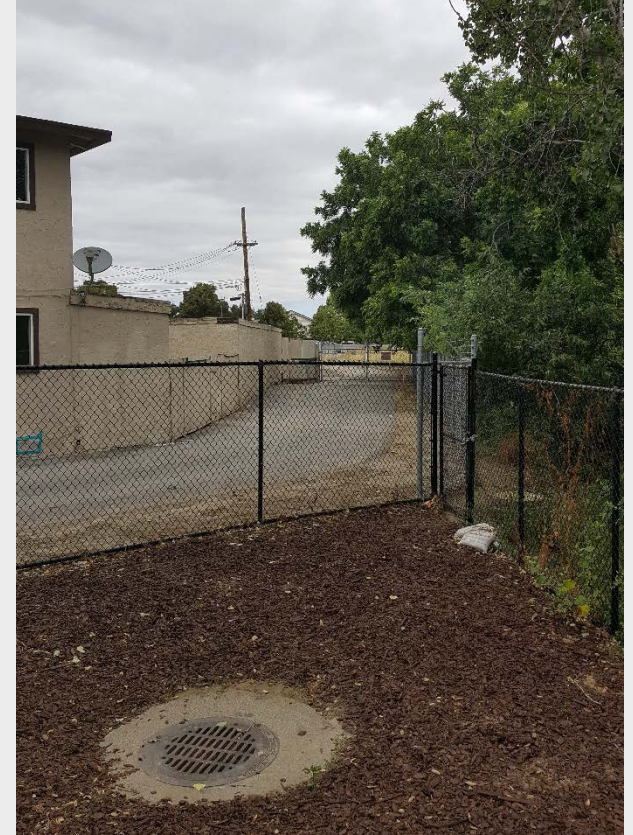
300-foot long flood barrier

Up to 3-feet tall

Limited construction area

Narrow or movable flood barrier

Existing SCVWD and San Jose Water Co. easements



Rock Springs Details – park area

200-foot long flood barrier

Up to 3-feet tall

Crosses park area –driveway
to basketball court

Narrow or movable flood
barrier

Existing SCVWD easement



Rock Springs Options

Flood barriers under consideration

- Earthen berm
- Grading the park to a higher elevation
- Sheet pile floodwall
- Concrete floodwall
- Super sack sandbags
- Water filled rubber dam
- Water filled plastic wall
- Concrete covered sandbags
- Sandbags and plastic



Rock Springs Options

Floodwall – concrete or sheetpile



Rock Springs Options

Floodwall – water filled rubber dam or plastic wall



Rock Springs Options

Floodwall – earthen berm or sandbags



Rock Springs Options

Elevate the park area by up to 3-feet

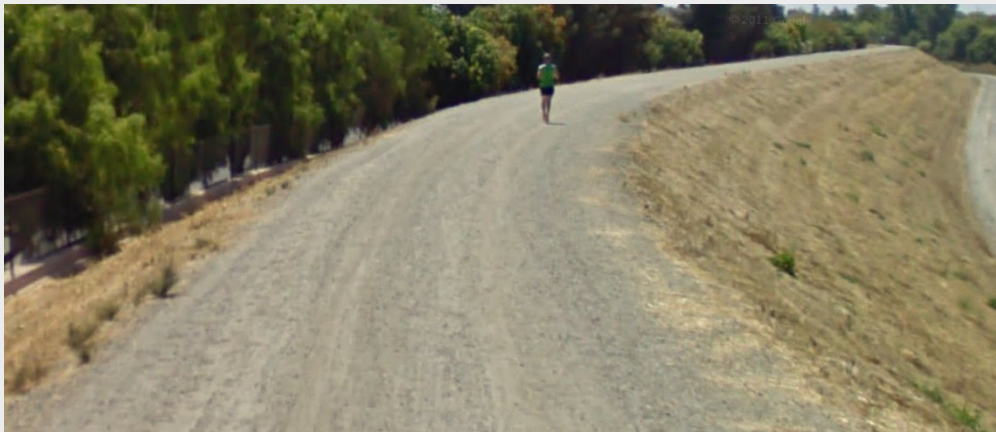


Recommendation – Rock Springs

Short Term Flood Barriers

Up to 5 foot tall earthen berm

Up to 3-foot tall vinyl sheetpile wall at driveway and park



Next Steps

Board direction

Public outreach at Rock Springs

Final construction plans

Board approval

Construction by Winter 2017