

# **Developing the Capital Improvement Program**

**Board & Community Engagement Processes** 

Presented by:

Luz Penilla, Assistant Officer - Office of Integrated Water Management



# Agenda

## 1. CIP Development

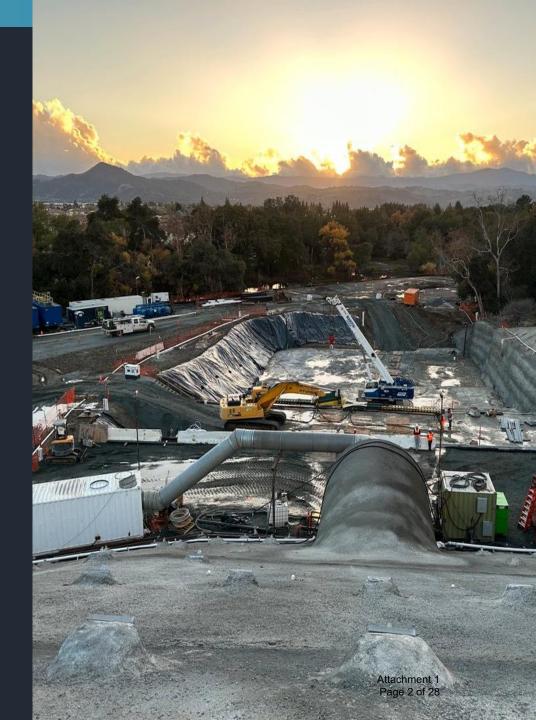
- A. New project identification
- B. Adding/removing projects
- C. Tools to aid Board in decision-making

# 2. Review of Projects by Category

- A. CIP FY 2025-29 Five-Year Plan Projects
  - 1) Organized by Fund and Funding Categories

## 3. Next Steps

A. Integrated Financial Planning Calendar

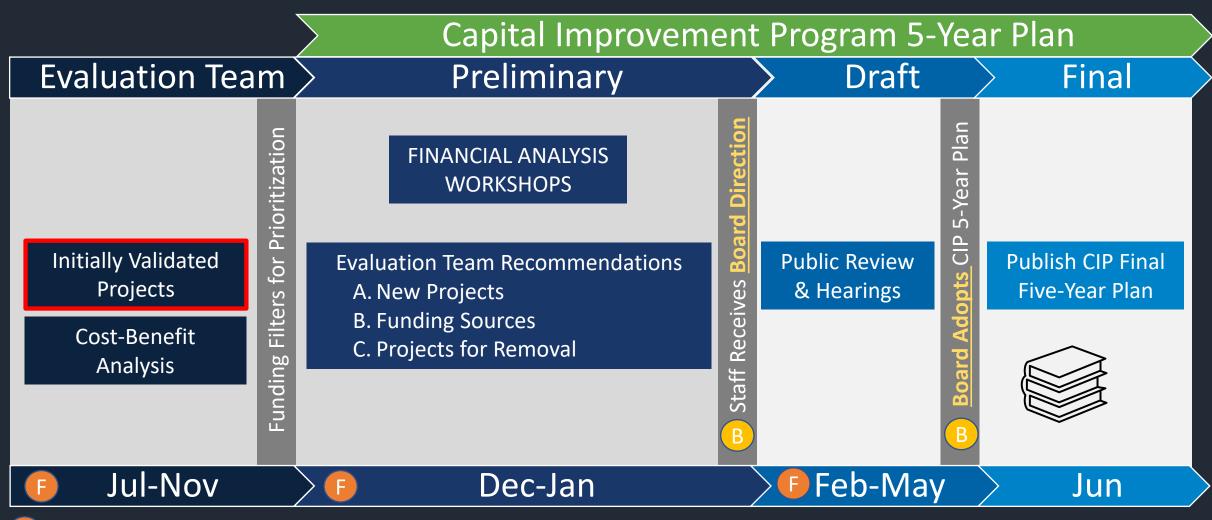


# Identifying new projects for the CIP

How are new capital projects identified and initially validated?



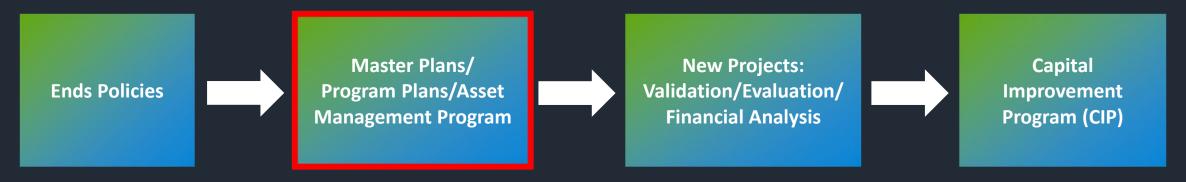
# **Annual CIP 5-Year Plan Timeline**



- CIP Committee and/or Board Feedback
- B Key Decision Points for Board



# **Drivers for New Capital Projects**

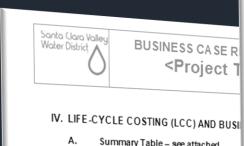


Minimizing asset life-cycle costs while sustainably delivering the levels of service that meet customer expectations at an acceptable level of risk as expressed through the Board. (I-EL-6.4.a)



# **Initial Project Validation for CIP Preliminary Five-Year Plan**

- Business Case Report\*
  - A. Life-cycle Cost
  - Risk
  - **Options**
  - Costs: Capital, O&M, Benefits
- Initially Validated Project
- **Evaluation Team** 
  - Prioritization
    - 1) Funding Filters & Categories
  - Resource Analyses
    - Funding (Internal/External)
    - Staff



Summary Table - see attached.

Use the Validation Tool Kit to prepare a life-cyc business risk exposure (BRER) for each feasib detailed instructions. Attach the summary ana

**BRE Assumptions** 

Describe any assumptions used in determining

- Provide reasoning for CoE scores.
- Provide an explanation of any redunda.

LCC Assumptions

Describe any key assumptions used in develop



#### BUSINESS CASE REPORT FOR <Project Title>

PROJECT PHASE

#### III. OPTIONS ANALYSIS

Complete the table below with a brief description of each option. The Status Quo Option should be analyzed for all projects. Besides the Status Quo, not all options will apply to every project. It is possible to have more than an projecto. Besides the status Guo, not an opinons will apply to every project, it is possible to have non one afternative for each type of option. For example, there may be two options for "operate differently",

- 1		and the
	Option	and the
1.	Status Quo / Baseline	Brief Description
		Continue operating and maintaining the asset as it is currently being done. The is the base case and should be analysed for all projects with existing processes.
2.	Do Nothing/Run to Fail	Running an asset to failure. It involves not spending any money on planned maintenance or refurbishments unless required to maintain a minimumlevel of service to the customer.
3.	Operate Differently	Changing operations to meet the project objectives. Examples include running a pump at lower speeds or releasing lower flows into a channel.
4.	Maintain Differently	Changing the maintenance program to meet the project objective. Examples include increasing the frequency of planned maintenance.
5.	Refurbish / Rehabilitation	Transforming the asset to "as new" condition. It includes replacement of a component part or parts, or equivalent intervention sufficient to return the asset to as-new condition.
6.	Replace	Substitution of an entire asset with a new or equivalent asset
7.	New Asset or Augmentation	Augmenting an asset or adding a new asset, typically to meet new level of service or capacity requirements.
8.	Decommission	Retiring the asset at the end of its useful life
9.	Non Asset Solutions	A solution that meets the project objective(s) without changing the asset or its operations and maintenance plans. Examples include changing policies, contracts, or permit requirements to decrease demand on the asset, such as conservation.
10.	(Other options)	Identify any other feasible alternatives.

For each viable option in the table above, attach a detailed description to this report. A template is provided in Appendix A as an example of the type of information that should be included in the description. The template is not required. Any reasonable description can be attached.

Appendix as an example of the type of information that shinot required. Any reasonable description can be attached

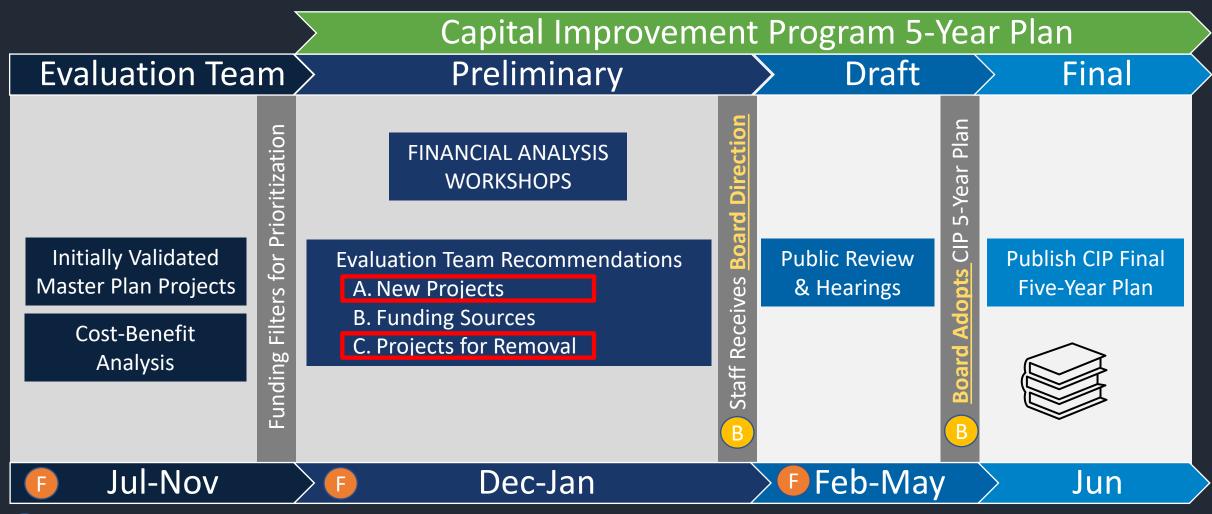
Staff evaluates the lifecycle costs of different capital, non-capital, or non-asset-based solutions

# Adding/removing projects from the CIP

How are capital projects added or removed from the CIP?



# **Annual CIP 5-Year Plan Timeline**



- F CIP Committee and/or Board Feedback
- B Key Decision Points for Board



# **Funding Categories Tool Implemented**

How to use the tools designed to aid the Board in its decision-making



# **Review Projects by Fund**

## **Category 1 Projects**

- Existing infrastructure with BRE ≥ 88; and/or
- In construction and/ or mandated

## **Category 2 Projects**

 Existing infrastructure with BRE 76-87

## **Category 3 Projects**

- Existing infrastructure with BRE ≤ 75
- NEW Infrastructure
- Placeholder/Small Caps



# CIP FY 2025-29 Five-Year Plan Projects (Organized by Fund and Funding Categories)



## **Fund 11: General**

Total Project Cost \$ based upon FY 2025-29 Five-Year Plan

## **Category 1 Projects**

- Existing infrastructure with BRE ≥ 88; and/or
- In construction and/ or mandated

#### **Category 2 Projects**

Existing infrastructure with BRE 76-87

## **Category 3 Projects**

- Existing infrastructure with BRE ≤ 75
- NEW Infrastructure
- Placeholder/Small Caps





# Fund 12: Watershed Stream Stewardship

Total Project Cost \$ based upon FY 2025-29 Five-Year Plan

#### **Category 1 Projects**

- Existing infrastructure with BRE ≥ 88; and/or
- In construction and/ or mandated

#### **Flood Protection**

\$117.3M SF Bay Shoreline (EIA 11)

\$35.5M Lower Pen. Creek Improvements

Water Resources Stewardship

\$8.9M Coyote 10B Freshwater Wetlands

## **Category 2 Projects**

Existing infrastructure with BRE 76-87

#### Flood Protection

\$107M Lower Guadalupe River Capacity Restoration

Water Resources Stewardship

\$15.5M Calabazas/San Tomas Ck Marsh Connection (P&D)

## **Category 3 Projects**

- Existing infrastructure with BRE ≤ 75
- NEW Infrastructure
- Placeholder/Small Caps

#### Flood Protection Placeholder Projects

\$136.6M Berryessa Creek (Phases 1 and 2) \$49.7M Berryessa Creek (Phase 3) Construction

\$11.5M Palo Alto Tide Gates \$13.7M Stevens Creek Fish Passage Const/Moffett Ave (FAHCE)

\$304.4M

Water Resources Stewardship

\$5.7M Pond A4 (Phase 1)

Small Capital Improvements

WARP



# Fund 26: Safe, Clean Water

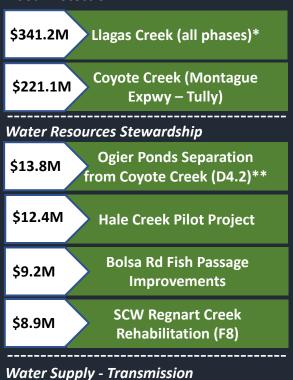
Total Project Cost \$ based upon FY 2025-29 Five-Year Plan

## **Category 1 Projects**

- Existing infrastructure with BRE ≥ 88;
   and/or
- In construction and/or mandated

#### **Flood Protection**

\$25.4M



**IRP2 Additional Line** 

Valves

## **Category 2 Projects**

Existing infrastructure with BRE 76-87

#### **Flood Protection**

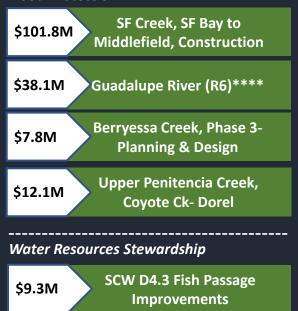
\$124.9M	Guadalupe River- Upper (Reaches 7-12) ***
\$57.8M	Sunnyvale East & West
\$28.7M	SF Shoreline (EIAs 1-4)
\$15.7M	SF Shoreline (EIAs 5-9 or 10)

- \* Per Board decision following the Safe, Clean Water Program public hearing held on 08/13/24, the revised TPC for Llagas Creek (all phases) is approximately \$393.1M.
- \*\*In addition to the \$13.8M shown here in Fund 26, Fund 61 also includes planned funding for Ogier Ponds in the amount of \$77.9M, which includes placeholder project dollars of \$27.9M and \$50M earmarked in ADSRP for project mitigation.
- \*\*\* Per Board decision following the Safe, Clean Water Program public hearing held on 08/13/24, the revised TPC for the Guadalupe River Upper (Reaches 7-12) is approximately \$90.7M.

## **Category 3 Projects**

- Existing infrastructure with BRE ≤ 75
- NEW Infrastructure
- Placeholder/Small Caps

#### **Flood Protection**



\*\*\*\*Guadalupe River Reach 6 Phase I, Gravel Augmentation complete. Phase II construction is planned for FY29-30.



# **Fund 61: Water Utility Enterprise**

Total Project Cost \$ based upon FY 2025-29 Five-Year Plan

## **Category 1 Projects**

- Existing infrastructure w/ BRE ≥ 88; and/or
- In construction and/or mandated



#### **Transmission Facilities 10-Year Pipeline** \$171M Insp. & Rehab. **FAHCE** \$145.1M **Implementation Almaden Valley** \$119.3M Pipeline Replacement Vasona Pump \$36.8M **Station Upgrade** Dist. Sys. Master Plan \$9.3M **Implementation Treated Water** \$8.5M **Isolation Valves SCADA Master Plan** \$6.5M **Implementation** Pacheco/SCC \$6.1M **ROW Acquisition**

#### **Treatment Facilities**

\$722.5M	RWTP Reliability Improvement
\$32.9M	RWTP Residuals Mgmt.
\$20.4M	WTP Electrical Improvement
\$20.6M	STWTP Filter Media Replacement
Recycled Wo	ater Facilities
\$60.1M	So. County Recycled Water Pipeline
Placeholder	Projects
\$27.9M	Ogier Ponds *

\*In addition to the \$27.9M shown here in Fund 61, Fund 61 also includes \$50M earmarked in ADSRP for Ogier Ponds for project mitigation. Fund 26 also includes \$13.8M for construction.



# Fund 61: Water Utility Enterprise cont...

Total Project Cost \$ based upon FY 2025-29 Five-Year Plan

## **Category 2 Projects**

Existing infrastructure with BRE 76-87

#### **Treatment Facilities**



#### **Transmission Facilities**

\$10.4M	SMPIP Upgrades – Phase 1
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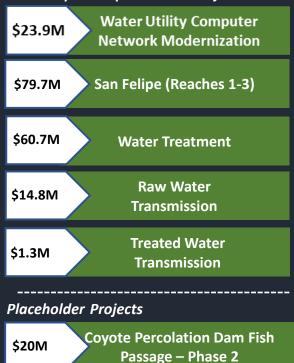
## **Category 3 Projects**

- Existing infrastructure with BRE ≤ 75
- NEW Infrastructure
- Placeholder/Small Caps

#### Storage Facilities



#### **Small Capital Improvement Projects**





# **Fund 73: Information Technology**

Total Project Cost \$ based upon FY 2025-29 Five-Year Plan

## **Category 1 Projects**

- Existing infrastructure with BRE ≥ 88; and/or
- In construction and/ or mandated

#### **Information Technology**

\$2.6M IT Disaster Recovery

\$1.3M

**Data Consolidation** 

## **Category 2 Projects**

Existing infrastructure with BRE 76-87

## **Category 3 Projects**

- Existing infrastructure with BRE ≤ 75
- NEW Infrastructure
- Placeholder/Small Caps

Small Capital Improvement Project

\$20.8M

Software Upgrades & Enhancements



## **Integrated Financial Planning Schedule**

REF #	MEETING		MILECTONE		
	CIP CMTE	BOARD	MILESTONE		
1	9/16/24		Annual CIP Development Process Overview/Funding Filters for Prioritization Presentation/Integrated Financial Planning Calendar/Review of CIP FY25-29 Five-Year Plan Projects by Category		
2		10/08/24	Annual CIP Development Process Overview/Funding Filters for Prioritization Presentation/Integrated Financial Planning Calendar/Review of CIP FY25-29 Five-Year Plan Projects by Category		
3	10/21/24		New, & Unfunded Projects Presentation		
4		11/12/24	New, & Unfunded Projects Presentation / Receive Board Feedback Regarding CIP FY25-29 Five-Year Plan Projects, and New & Unfunded Projects for Inclusion in CIP Preliminary FY26-30 Plan Water Rate Planning Overview Biennial Budget Process Overview		
5	12/16/24		CIP Preliminary Five-Year Plan Funding Workshop (Financial Modeling & CIP Updates From Adopted FY25-29 Plan)		
6		1/14/25	Five-Year WS & WU O&M Plans CIP Preliminary 5-yr Plan Workshop (Financial Modeling & Significant Updates); Board to Provide Direction CIP SCW/WS Preliminary 10-yr Financial Analysis Preliminary Water Rate Analysis & Scenarios	Combined Presentation	
7		1/28/25	SCW Public Hearing (If Required)  1st Pass Budget Update		
8		2/25/25	Draft CIP (Authorize to Distribute for Public Review)		
9		3/11/25	2 <sup>nd</sup> Pass Budget Update		
10		4/5/25	Ground Water Charge Public Hearings Begin CIP Public Hearing Begins (Optional Date 4/23)		
11		4/10/25	Ground Water Charge Public Hearing in South County (Gilroy)		
12		4/22/25	Ground Water Charge Public Hearings Close		
13		4/23/25	Budget Work-study Session		
14		5/13/25	Board Adoption of Water Rates, CIP, Budget, Investment and Debt Resolutions (w/Final CIP and Budget Report Completed by 6/30/2025)	orts	
15		6/28/24	FY25 Rate Notifications: Website and Mailers (Retailers and All Customers)		

**LEGEND** 

CIP

**Budget** 

**Water Rates** 

Safe Clean Water (SCW)

**Asset Management (AM)** 

Attachment 1 Page 18 of 28

# Updates Available Online

SCAN THE QR CODE:



Or visit this website: delivr.com/24wqn

# **END OF PRESENTATION**

Questions & Answers



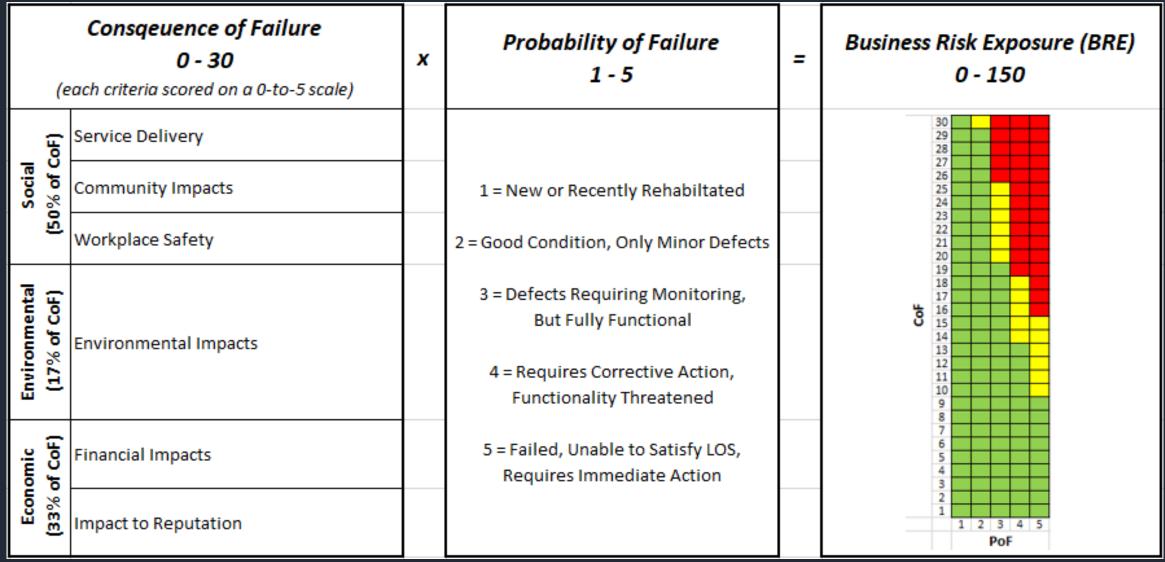
# **EXTRA SLIDES**



# Asset Management Program Tool (Business Risk Exposure (BRE))



# **Asset Management Program- Business Risk Exposure (BRE)**



# Capital Improvement Program Tool (Funding Filters and Categories)



# CIP Funding Filters for Prioritization (w/Point Application)

1. Repair/Replace Existing Infrastructure Projects 5 points

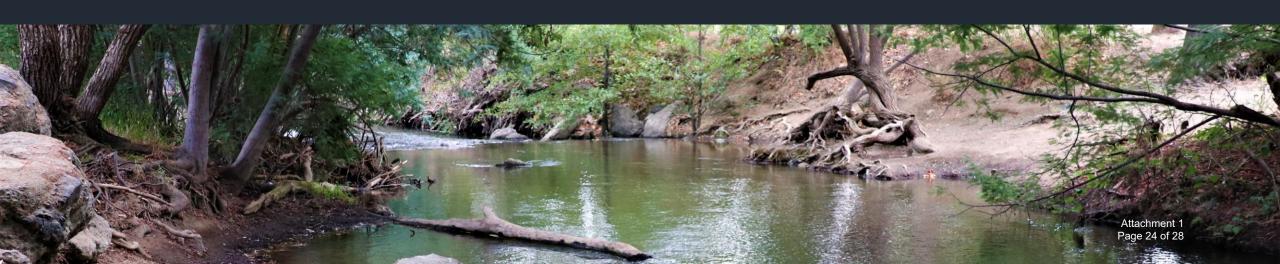
2. Public Health and Safety Projects 4 points

3. Shovel Ready (Permits/Land Rights Secured) Projects 3 points

4. Multi-Benefit Projects 2 points

A. Environmental Justice Benefit Projects ½ point

5. Partially External-Funded (Grants/Partnerships) Projects 1 point



Scoring for Repairing and Replacing Existing Infrastructure



#### Category 1: ≥ 19 points

- 1. Repair/replace existing infrastructure
- 2. Risk of failure score is ≥ 88
- 3. Required for public health and safety
- 4. Projects under construction or mandated (required by law, regulation, federal order, lawsuit, etc...) are automatically included in Category 1.



#### **Category 2: 13-18.5 points**

- 1. Repair/replace existing infrastructure
- 2. Risk of failure score is between **76-87**
- 3. Required for public health and safety.



#### Category 3: ≤ 12.5 points

- 1. Projects with a lower risk of failure, ≤ **75**
- 2. New infrastructure projects in the Water Supply Master Plan and One Water Plan
- 3. Small capital improvement and placeholder projects.
  - A. Placeholder projects meet Valley Water's mission and are anticipated to be needed but may not yet have defined scopes, schedules, or funding sources.

