

November 12, 2021

MEETING NOTICE**SANTA CLARA VALLEY WATER DISTRICT
CAPITAL IMPROVEMENT PROGRAM COMMITTEE**

Members of the Capital Improvement Program Committee:

Director Nai Hsueh, Chairperson
Director Linda LeZotte, Vice Chairperson
Director Tony Estremera, Committee Member

Staff Support of the Diversity & Inclusion Ad Hoc Committee:

Rick Callender, Chief Executive Officer
Melanie Richardson, Assistant Chief Officer – Integrated Water Management
Leslie Orta, Senior Assistant District Counsel
Rachael Gibson, Chief of External Affairs
Tina Yoke, Interim Chief Administrative Officer
Darin Taylor, Chief Financial Officer
Sue Tippets, Chief Operating Officer – Watersheds
Aaron Baker, Chief Operating Officer - Water Utility
Don Rocha, Deputy Administrative Officer
Christopher Hakes, Deputy Operating Officer
Rechelle Blank, Deputy Operating Officer
John Bourgeois, Deputy Operating Officer
Jennifer Codianne, Deputy Operating Officer
Heath McMahon, Deputy Operating Officer
Bhavani Yerrapotu, Deputy Operating Officer
Vincent Gin, Deputy Operating Officer
Gregory Williams, Deputy Operating Officer
Lisa Bankosh, Assistant Officer
Kenneth Wong, Construction Procurement & Contracts Manager
Bryant Welch, Labor Relations Officer
Charlene Sun, Budget Manager
Jessica Collins, Business Planning and Analysis Unit Manager
Linh Hoang, Communications Manager
Michael Cook, Information Technology Manager
Emmanuel Aryee, Capital Engineering Manager
Jill Bernhard, Acting System Development & Support Manager

A regular meeting of the Santa Clara Valley Water District Capital Improvement Program Committee has been scheduled to occur at **11:00 a.m., on Monday, November 15, 2021.**

Join Zoom Meeting at: <https://valleywater.zoom.us/j/94158013374>

The meeting agenda and corresponding materials are located on the Committee's website at: <https://www.valleywater.org/how-we-operate/committees/board-committees>.



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Santa Clara Valley Water District Capital Improvement Program Committee Meeting

Teleconference Zoom Meeting

REGULAR MEETING AGENDA

**Monday, November 15, 2021
11:00 AM**

District Mission: Provide Silicon Valley safe, clean water for a healthy life, environment and economy.

BOARD COMMITTEE MEMBERS:

Committee Chair:
Director Nai Hsueh, District 5

Committee Vice Chair:
Director Linda J. LeZotte, District 4

Tony Estremera, District 6

During the COVID-19 restrictions, all public records relating to an open session item on this agenda, which are not exempt from disclosure pursuant to the California Public Records Act, that are distributed to a majority of the legislative body, will be available to the public through the legislative body agenda web page at the same time that the public records are distributed or made available to the legislative body. Santa Clara Valley Water District will make reasonable efforts to accommodate persons with disabilities wishing to participate in the legislative body's meeting. Please advise the Clerk of the Board Office of any special needs by calling (408) 265-2600.

COMMITTEE LIAISON:
Jessica Collins

COMMITTEE CLERK:
Natalie Dominguez, CMC
Assistant Deputy Clerk II
408-265-2659
ndominguez@valleywater.org
www.valleywater.org

Note: The finalized Board Agenda, exception items and supplemental items will be posted prior to the meeting in accordance with the Brown Act.

**Santa Clara Valley Water District
Capital Improvement Program Committee
REGULAR MEETING
AGENDA**

Monday, November 15, 2021

11:00 AM

Teleconference Zoom Meeting

BY VIRTUAL TELECONFERENCE ONLY

Pursuant to California Government Code section 54953(e), this meeting will be held by teleconference only. No physical location will be available for this meeting; however, members of the public will be able to participate in the meeting as noted below.

In accordance with the requirements of Gov. Code Section 54954.3(a), members of the public wishing to address the Board/Committee at a video conferenced meeting, during public comment or on any item listed on the agenda, should use the "Raise Hand" tool located in the Zoom meeting link listed on the agenda, at the time the item is called. Speakers will be acknowledged by the Board Chair in the order requests are received and granted speaking access to address the Board.

Santa Clara Valley Water District (Valley Water) in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access and/or participate in Valley Water Committee meetings to please contact the Clerk of the Board's office at (408) 630-2711, at least 3 business days before the scheduled meeting to ensure that Valley Water may assist you.

This agenda has been prepared as required by the applicable laws of the State of California, including but not limited to, Government Code Sections 54950 et. seq. and has not been prepared with a view to informing an investment decision in any of Valley Water's bonds, notes or other obligations. Any projections, plans or other forward-looking statements included in the information in this agenda are subject to a variety of uncertainties that could cause any actual plans or results to differ materially from any such statement. The information herein is not intended to be used by investors or potential investors in considering the purchase or sale of Valley Water's bonds, notes or other obligations and investors and potential investors should rely only on information filed by Valley Water on the Municipal Securities Rulemaking Board's Electronic Municipal Market Access System for municipal securities disclosures and Valley Water's Investor Relations website, maintained on the World Wide Web at <https://emma.msrb.org/> and <https://www.valleywater.org/how-we-operate/financebudget/investor-relations>, respectively.

Under the Brown Act, members of the public are not required to provide identifying information in order to attend public meetings. Through the link below, the Zoom webinar program requests entry of a name and email address, and Valley Water is unable to modify this requirement. Members of the public not wishing to provide such identifying information are encouraged to enter "Anonymous" or some other reference under name and to enter a fictional email address (e.g., attendee@valleywater.org) in lieu of their actual address. Inputting such values will not impact your ability to access the meeting through Zoom.

Join Zoom Meeting:

<https://valleywater.zoom.us/j/94158013374>

Meeting ID: 941 5801 3374

Join by Phone: 1 (669) 900-9128, 94158013374#

1. CALL TO ORDER:

1.1. Roll Call.

2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA.

Notice to the Public: Members of the public who wish to address the Committee on any item not listed on the agenda should access the "Raise Hand" tool located in Zoom meeting link listed on the agenda. Speakers will be acknowledged by the Committee Chair in order requests are received and granted speaking access to address the Committee. Speakers comments should be limited to three minutes or as set by the Chair. The law does not permit Committee action on, or extended discussion of, any item not on the agenda except under special circumstances. If Committee action is requested, the matter may be placed on a future agenda. All comments that require a response will be referred to staff for a reply in writing. The Committee may take action on any item of business appearing on the posted agenda.

3. APPROVAL OF MINUTES:

3.1. Approval of October 18, 2021 Capital Improvement Program Committee Minutes. [21-1152](#)

Recommendation: Approve the minutes.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: 101821 CIP Committee Minutes](#)

Est. Staff Time: 5 Minutes

4. ACTION ITEMS:

- 4.1. Review Capital Project Monitoring - Design and Permitting Report. [21-1194](#)
Recommendation: Receive and discuss information regarding the status of capital projects in the design and permitting phase.
Manager: Rechelle Blank, 408-630-2615
Christopher Hakes, 408-630-3796
Heath McMahon, 408-630-3126
Attachments: [Updated Design and Permitting Report Rev 11.pdf](#)
Est. Staff Time: 15 minutes
- 4.2. Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract. [21-1195](#)
Recommendation: Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract.
Manager: Christopher Hakes, 408-630-3796
Attachments: [Attachment 1: ADTP Construction Contract Change Orders Status](#)
Est. Staff Time: 5 Minutes
- 4.3. Receive Information on Upcoming Consultant Agreement Amendments for Capital Projects. [21-1196](#)
Recommendation: Receive information on upcoming consultant agreement amendments for capital projects.
Manager: Vincent Gin, 408-630-2633
Est. Staff Time: 10 Minutes
- 4.4. Review Information Regarding Cost Increase for the Anderson Dam Seismic Retrofit Project. [21-1246](#)
Recommendation: Review information regarding cost increase for the Anderson Dam Seismic Retrofit Project.
Manager: Christopher Hakes, 408-630-3796
Attachments: [Attachment 1: ADSRP – Total Project Cost Increase](#)
Est. Staff Time: 15 Minutes
- 4.5. Review Significant Project Plan Updates Since Adoption of the Fiscal Year 2022-26 Capital Improvement Program Five-Year Plan. [21-1197](#)
Recommendation: Review Significant Project Plan Updates Since Adoption of the Fiscal Year 2022-26 (FY 22-26) Capital Improvement Program (CIP) Five-Year Plan and provide feedback, as necessary.
Manager: Rechelle Blank, 408-630-2615
Attachments: [Attachment 1: Capital Project Plan Updates FY2022-26 CIP](#)
[Attachment 2 PowerPoint](#)

4.6. Review 2021 Capital Improvement Committee Work Plan.

[21-0842](#)

Recommendation: Review the 2021 Capital Improvement Program Committee Work Plan and make adjustments as necessary.

Manager: Michele King, 408-630-2711

Attachments: [Attachment 1: 2021 CIP Committee Work Plan](#)

Est. Staff Time: 5 Minutes

5. INFORMATION ITEMS:

6. CLERK REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS.

This is an opportunity for the Clerk to review and obtain clarification on any formally moved, seconded, and approved requests and recommendations made by the Committee during the meeting.

7. ADJOURN:

7.1. Adjourn to Regular Meeting at 11:00 a.m., on December 13, 2021.

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Santa Clara Valley Water District

File No.: 21-1152

Agenda Date: 11/15/2021
Item No.: 3.1.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Approval of October 18, 2021 Capital Improvement Program Committee Minutes.

RECOMMENDATION:

Approve the minutes.

SUMMARY:

In accordance with the Ralph M. Brown Act, a summary of Committee discussions, and details of all actions taken by the Capital Improvement Program Committee, during all open and public Committee meetings, is transcribed and submitted to the Committee for review and approval.

Upon Committee approval, minutes transcripts are finalized and entered into the Committee's historical record archives, and serve as the official historical record of the Committee's meeting.

ATTACHMENTS:

Attachment 1: 101821 CIP Committee Minutes

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711

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CAPITAL IMPROVEMENT PROGRAM COMMITTEE MEETING

MINUTES

**MONDAY, OCTOBER 18, 2021
11:00 AM**

(Paragraph numbers coincide with agenda item numbers)

1. CALL TO ORDER:

A regular meeting of the Santa Clara Valley Water District (Valley Water) Capital Improvement Program Committee (Committee) was called to order via Zoom video teleconference at 11:00 a.m.

1.1 Roll Call.

Committee members in attendance via Zoom teleconference were District 4 Director Linda LeZotte, District 6 Director Tony Estremera, and District 5 Director Nai Hsueh, Chairperson presiding, constituting a quorum of the Committee.

Staff members in attendance were District Counsel C. Orellana, J. Aranda, E. Aryee, A. Baker, R. Blank, S. Bogale, J. Bohan, J. Bourgeois, B. Ching, J. Collins, M. Cook, M. Ganjoo, A. Gordon, C. Hakes, C. Kwok-Smith, O. Leonardo, J. Manidakos, J. Martin, H. McMahon, D. Montenegro, L. Orta, N. Pan, L. Porcella, M. Potter, M. Richardson, K. Sibley, K. Struve, D. Taylor, S. Tippets, G. Williams, K. Wong and T. Yoke

2. TIME OPEN FOR PUBLIC COMMENT ON ANY ITEM NOT ON THE AGENDA

Chairperson Hsueh declared time open for public comment on any item not on the agenda. There was no one present who wished to speak.

3. APPROVAL OF MINUTES

3.1. Approval of September 20, 2021 Meeting Minutes.

Recommendation: Approve the minutes.

The Committee considered the attached minutes of the September 20, 2021 meeting. Director LeZotte requested the following amendments to the minutes: Page 3, Paragraph 1, delete the first two bulleted items from list, revise third bulleted item in list to clarify that no special reporting is required on the Coyote Pumping Plant Adjustable Speed Drives Replacement Project. It was moved by Director LeZotte, seconded by Director Estremera, and unanimously carried by roll call vote that the minutes be approved as amended.

4. ACTION ITEMS

4.1. Review Capital Project Monitoring - Feasibility and Planning Report.

Recommendation: Receive updates on projects in the feasibility and planning phase, discuss resource needs, and make recommendations as necessary.

Chairperson Hsueh, reviewed the information on this item, per the attached Committee Agenda Memo, and corresponding presentation materials contained in Attachment 1 were reviewed by staff as follows: Mr. Chris Hakes, Deputy Operating Officer, reviewed Items 1 and 2, Mr. John Bourgeois, Deputy Operating Officer, reviewed Items 3, 12 through 14, and 17, Mr. Heath McMahon, Deputy Operating Officer, reviewed Items 4, 6 and 7, Ms. Kirsten Struve, Assistant Officer, reviewed Item 8, Mr. Barton Ching, Senior Engineer - Pipeline, reviewed Items 9 through 11, and Ms. Rechelle Blank, Deputy Operating Officer, reviewed Item 15. Item 16 was deferred to be included in staff's presentation of Item 4.3 of this agenda.

The Committee noted the information, without formal action.

4.2. Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

Recommendation: Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

Chairperson Hsueh reviewed the information on this item, per the attached Committee Agenda Memo, and confirmed there were no change orders reported for the month of September 2021.

The Committee noted the information, without formal action.

4.3. Information on the Safe Clean Water Project D4, Stevens Creek Fish Passage Assessment, Impediment Removal Prioritization.

Recommendation: Receive information on the Safe Clean Water Project D4, Stevens Creek Fish Passage Assessment Impediment Removal Prioritization and provide feedback, if necessary.

Mr. Bourgeois reviewed the information on this item, per the attached Committee Agenda Memo, and corresponding presentation materials contained in Attachment 2 were reviewed by Mr. Kevin Sibley, Senior Engineer – Flood Protection Plan, and Mr. James Manidakos, Associate Water Resources Specialist.

The Committee received an update on the project, including a list of eight sites identified for priority focus. The Stevens Creek Study area spans 12.8 miles, from Stevens Creek Reservoir to the San Francisco Bay. It was noted that not all fish passage barriers were owned by Valley Water, nor is Valley Water responsible to fix sites they do not own. Site No. 3, Moffett Fish Ladder and Site No. 21,

Fremont Fish Ladder are Valley Water owned and included in the current Capital Improvement Program. Staff is working with FAHCE project team, Santa Clara County, Caltrans, and City of Mountain View to identify responsibilities and funding to implement remedies for the priority sites. A complete copy of this report is available in the October 18, 2021 CIP Committee agenda packet.

4.4. Overview of the Annual Capital Improvement Program Process and Integrated Financial Planning Schedule for Capital Projects, and Review of the Fiscal Year 2022-23 (FY23) Currently Unfunded Projects.

- Recommendation:
- A. Receive overview of the Annual Capital Improvement Program Process and Integrated Financial Planning Schedule;
 - B. Review list of Currently Unfunded Capital Projects; and
 - C. Provide feedback as necessary.

Ms. Jessica Collins, Business Planning and Analysis Manager, reviewed the information on this item, per the attached Committee Agenda Memo, and the corresponding presentation materials contained in Attachment 1 were reviewed by Ms. Collins and Mr. Darin Taylor, Chief Financial Officer.

The Committee received an overview of the Annual Capital Improvement Program Process and Integrated Financial Planning Schedule and reviewed a list of currently unfunded capital projects initially validated for potential inclusion in the FY2023-27 CIP. A brief discussion ensued regarding Fiscal Year 23 initially validated and currently unfunded projects (Attachment 1, Page 10). Staff provided additional details clarifying the South Babb flood protection and mitigation projects and priority focus to reduce flood risk and prevent apartment buildings from being added to the FEMA 1% flood plain, and security enhancements. Staff will present a detailed CIP report for the Committee's review and feedback at the next meeting.

The Committee noted the information, without formal action.

4.5. Review 2021 Capital Improvement Committee Work Plan.

- Recommendation: Review the 2021 Capital Improvement Program Committee Work Plan and make adjustments as necessary.

Chairperson Hsueh reviewed the information on this item, per the attached Committee Agenda Memo, and corresponding presentation materials contained in Attachments 1 and 2.

The Committee noted the information, without formal action.

5. INFORMATION ITEMS.

None.

6. CLERK'S REVIEW AND CLARIFICATION OF COMMITTEE REQUESTS AND RECOMMENDATIONS:

Ms. Natalie Dominguez, Assistant Deputy Clerk II, confirmed there were no requests or recommendations for Board consideration.

7. ADJOURN

7.1. Adjourn to Regular Meeting at 11:00 a.m., on November 15, 2021, to be called to order in compliance with the Brown Act as currently in effect and Santa Clara Valley Water District Resolution 21-85, adopted on September 28, 2021, in compliance with the provisions of AB361 (Rivas).

Chairperson Hsueh adjourned the meeting at 12:35 p.m., to the next scheduled meeting at 11:00 a.m., on November 15, 2021, to be called to order in compliance with the Brown Act as currently in effect and Santa Clara Valley Water District Resolution 21-85, adopted on September 28, 2021, in compliance with the provisions of AB361 (Rivas).

Natalie F. Dominguez, CMC
Assistant Deputy Clerk II

Approved:



Santa Clara Valley Water District

File No.: 21-1194

Agenda Date: 11/15/2021
Item No.:

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Review Capital Project Monitoring - Design and Permitting Report.

RECOMMENDATION:

Receive and discuss information regarding the status of capital projects in the design and permitting phase.

SUMMARY:

The 2021 Workplan for the Board Capital Improvement Program Committee (Committee) includes monitoring of capital projects during all phases of development. Staff will present a list of active projects at each Committee meeting and provide detailed information on those where potential and/or significant issues have been identified. The projects presented for discussion will be organized by phases: feasibility/planning; design and permitting; and construction. Staff will present projects to the Committee for review one phase at a time. Projects currently in the design and permitting phase are being presented at this Committee meeting.

Attachment 1 is a list of projects in the design and permitting phase. A verbal report will be provided at the meeting with more detailed information about recent developments on the projects listed in Attachment 1.

ATTACHMENTS:

Attachment 1: Design and Permitting Report

UNCLASSIFIED MANAGER:

Rechelle Blank, 408-630-2615
Christopher Hakes, 408-630-3796
Heath McMahon, 408-630-3126

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Capital Project Monitoring Report - November 2021

Design and Permitting Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues	Planned CM Services		
				Internal	External	Combination
<u>Water Supply</u>						
1	91864005	Anderson Dam Seismic Retrofit (C1: Fund Transfer KPI)	The 90% design of ADSRP is underway with the 90% plans and specifications anticipated to be completed by the end of April 2022 and the 90% construction cost estimate following at the end of June 2022. Some elements of the 90% Design such as improvements to the unlined spillway channel and winterization measures for the interim dams are currently at the conceptual level requiring additional input from DSOD, FERC, and the BOC. Also ongoing discussions with NMFS and CDFW might result in changing the non-mechanical weirs as currently designed for ADTP into mechanical adjustable weirs for ADSRP. Similarly, design of permanent facilities for County Parks use are also at a conceptual level, requiring input from County Parks to proceed with design. Assuming the input from the various agencies is received in a timely manner and that 90% design schedule is maintained, it is anticipated that final design could be completed and submitted for review by the BOC, DSOD, and FERC at the end of 2022.			X
2	91864005	Coyote Percolation Dam Replacement Project	The Coyote Percolation Dam Replacement Project recently completed the draft 30% plans and specifications and is obtaining review comments from Valley Water staff, DSOD, CDFW, and NMFS. The 60% design is planned for completion by the end of January 2022. Geotechnical field work was completed on October 8th and next steps include laboratory testing followed by development of the draft geotechnical report. The design team has been working with the procurement services unit to procure a rubber dam vendor for the design and manufacturing services.			X
3	91894002	Guadalupe Dam Seismic Retrofit - Design & Construct	Preliminary 90% design documentation was submitted by consultant in December 2020. Design documentation is under review.			X
4	91324002	Coyote Pumping Plant ASD Replacement	The RFQ for this Design/Build project delivery method was issued June 2, 2021 and closed July 29, 2021. On October 12, 2021 the Board received a project update and approved the recommendation to proceed to the RFP stage with a single prequalified Design/Build team. The RFP is scheduled to be issued in November 2021.			X
5	95084002	10-Yr Pipeline Inspection & Rehabilitation Project (Santa Clara Conduit)	Final Design of Phase I is complete. Advertisement for construction bids has been delayed until early 2022 due to the drought condition's effect on a Coyote Creek dryback if pipeline was removed from service. Environmental permitting work continues. Final Design of Phase II is scheduled for December 2021.	X		
6	26764001	A3*: IRP2 Additional Line Valves	Final Designs for all four locations are complete including Snell Pipeline Valve, East Pipeline Valve, West Pipeline Valve downstream of Santa Clara Distributary, and West Pipeline Valve between Rainbow & Mann turnouts. IRP2 Additional Line Valves construction schedule will be coordinated with associated Pipeline Inspection & Rehabilitation work.	X		
7	95084002	10-Yr Pipeline Inspection & Rehabilitation Project (Almaden Valley Pipeline)	The 90% design documents were completed in September 2021. Staff is working on the 100% plans which are scheduled for completion in February 2022.	X		
8	93294057	Rinconada WTP Reliability Improvement Project	A consultant agreement amendment with the Engineer of Record was approved by the Board in September 2021 for design services to prepare plans and specifications for publicly bidding the remaining reliability improvements for construction. Efforts are currently underway for the 70% design submittal.			X

Capital Project Monitoring Report - November 2021

Design and Permitting Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues	Planned CM Services		
				Internal	External	Combination
9	91094009	South County Recycled Water Pipeline – Short Term Implementation Phase 1B/2A/1C/2B Project	Plans and specifications are complete. The Board authorized Advertisement for Bids for Construction on September 14, 2021. Bid opening is scheduled for November 3, 2021.	X		
10	93284013	Santa Teresa WTP Filter Media Replacement Project	The Board of Directors approved the Engineer's Report, CEQA Exemption Determination, and the Project in September 2021. Staff completed 90% design documents in October 2021. Final Design is underway and is planned to be completed in December 2021.	X		
11	93084004	WTP Electrical Improvement Project	30% design documents, including Basis of Design Report, were completed in October 2021. The 60% design is underway and anticipated to be complete in December 2021. Steff plans to bring the Engineer's Report to the Board early 2022.	X		
12	95084002	10-Yr Pipeline Inspection & Rehabilitation Project (Snell Pipeline)	Staff is preparing the 60% design documents, which are currently scheduled for completion in February 2022.	X		
13	93234044	Penitencia WTP Residuals Management Project	Staff is scheduled to bring the consultant agreement for design services to the Board for approval on November 9, 2021. Quarterly progress updates are being provided to the California State Water Resources Control Board's Division of Drinking Water.	X		
14		Water Utility Small Capital Projects	Silicon Valley Advanced Water Purification Center Storage Building - 100% design documents are with City of San Jose for review and approval. Pacheco Pumping Station Electrical System & Hydraulic Valves Operating System Upgrades - Final design documents are scheduled to be complete November 2021. Board Authorization to Advertise for Construction is planned for early 2022.	X		
15	91864005	Cross Valley Pipeline Extension Project	UPRR permit was issued last Friday, October 29. Staff is planning to go to the Board to Award the Construction Contract on November 09, 2021.	X		
16	91864005	Coyote Creek Chillers Project	90% Design is currently out for QC Review with both internal VW Staff and USBR. Staff is anticipating Final Design by December 2021 pending USBR permit	X		

Flood Protection

17	10394001	Palo Alto Flood Basin Tide Gate Structure Replacement	60% design comments are being addressed. Final design is anticipated to be complete by end of 2021 pending receipt of environmental permits. Final CEQA MND was adopted by the Board on April 27, 2021. Permit applications have been submitted. Staff is coordinating with City of Palo Alto regarding cost sharing on specific project items.		X	
18	26284002	E5*: San Francisquito Creek - Upstream of HWY 101	Pope Chaucer design is at 80%; Channel widening design is at 90%; Final EIR was certified in September 2019. SFCJPA will submit permits applications in September 2021; channel widening construction is anticipated in summer 2023 pending receipt of permits; Newell Rd bridge (Palo Alto) construction delayed until 2023, pushing Pope-Chaucer Bridge construction to 2024. SFCJPA and member agencies also looking at additional funding sources to close shortfall. USACE recently received Federal funds to start the CAP 205 Study for Reach 2. The hydraulics team from USACE and Valley Water had met to review the overall hydraulics team framework and identify remaining tasks to complete the USACE feasibility study. A USACE planning charrette occurred on July 28.			X

Capital Project Monitoring Report - November 2021

Design and Permitting Phase

Row	Project No.	Project Name	Notes, Upcoming Board Actions or potential issues	Planned CM Services		
				Internal	External	Combination
19	26074002	E2*: Sunnyvale East and West Channels	Project design is complete. Coordination with Google is ongoing. Google must receive their permits first before Sunnyvale East and West Channels Project can submit permit applications. Project must prepare an addendum to its CEQA compliance document to incorporate Google work. Staff is aiming to bring the addendum and agreement with Google to the Board in early 2022.			
20	26154003	E8*: Upper Guadalupe River - SPRR to Blossom Hill Road (Reaches 7-12)	In January 2021, the USACE began re-evaluating the entire project, including re-evaluating the project's alternatives and benefit-cost-ratio, with the goal of making the project more competitive for federal funding. The study will take 3 years and is estimated to be completed by January 2024. The Feasibility Cost Share Agreement for the re-evaluation was executed on December 30, 2020. The first study milestone, Alternative Milestone meeting, was held on April 20, 2021.	N/A	USACE construction	
21	26174043	E1*: Coyote Creek - Montague Expressway to Tully Road (for 2017 flood event criteria)	The design consultant for both Phase 1 FOCF Flood Management Measures required for ADTP and Phase 2 Coyote Creek Flood Management Measures for the 2017 flood event criteria has begun preparing the 30% design documents. Three public meetings were held at Rock Springs Park, Williams Park, and Watson Park areas to discuss the projects progress in mid-October.		X	
22	26174051 26174052	E6*: Upper Llagas Creek, Phase 2B (Portion of Reaches 5 and 8, and Reaches 6, 7B, and 14)	On August 17, 2021, NRCS notified Valley Water of committed funding to construct Phase 2B. The funding amount available is up to \$80M. NRCS has stated it could take up to 24 months to approve the project design. Staff is working to satisfy NRCS' requirements as quickly as possible.			X (2B-TBD)
23	00044026	San Francisco Bay Shoreline, EIA 11 - Alviso Slough to Coyote Creek Bypass (E6: 26444001, 26444002, 26444004)	Reaches 1, 2 & 3 design complete. Reaches 4 & 5 design at 60%. In December 2019, the USACE advertised Reaches 1, 2 & 3 for construction, but had to reject bids because they came in over the acceptable USACE threshold. USACE re-advertised Reaches 1, 2 & 3 for construction on January 22, 2021 and awarded the construction contract in August 2021. The contractor is satisfying pre-construction requirements and plans to begin construction in spring 2022.	N/A	USACE construction	
24	62084001	Watershed Asset Rehabilitation Program (WARP)	Design is underway for the following projects: Erosion repair for Calabazas Creek (Miller Ave. to Bollinger Rd.) and concrete repair for Permanente Creek (Park Dr. to Mountain View Ave.).	X		
Water Resources Stewardship						
25	26164001	D6*: Hale Creek Enhancement Pilot Study	Plans and specifications are complete. Construction has been pushed from summer 2021 to summer of 2022 due to delay in obtaining all permissions to enter and temporary construction easements.			X
26	26044002	D6*: SCW Fish Passage Improvements at Bolsa Rd	Internal Valley Water operations staff has requested a project scope revision to add permanent access ramps. As a result, the plans and specifications will be revised to include this work and the construction schedule was revised to start work in summer 2022.			X
27	26044001	D4*: Almaden Lake Improvements	60% design is complete; Final EIR was certified by Valley Water Board of Directors on May 11, 2021; at the May 11 meeting, the Board selected the project to be constructed under KPI #2 of SCW D4; permit applications are being drafted and a coordination meeting is being set up to discuss the applications with the agencies.	X		

Buildings & IT

No projects to report

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Santa Clara Valley Water District

File No.: 21-1195

Agenda Date: 11/15/2021

Item No.: 4.2.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Receive Information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

RECOMMENDATION:

Receive information on Change Orders to Anderson Dam Tunnel Project Construction Contract.

SUMMARY:

Valley Water is undertaking the Anderson Dam Federal Energy Regulatory Commission Order Compliance Project (FOCP) as a result of the February 20, 2020 directive from FERC to implement interim risk reduction measures at Anderson Dam. One of those measures is the Anderson Dam Tunnel Project (ADTP).

On April 27, 2021, Valley Water's Board of Directors awarded the construction contract for the Anderson Dam Tunnel Project (ADTP) to the top ranked best value proposer, Flatiron West, Inc., in the sum of \$161,140,321 and approved a contingency amount of \$40,000,000 (25% of the contract price). The Board directed staff to discuss delegating authority for contingency expenditures with the CIP Committee.

By unanimous roll call vote at its May 17, 2021, meeting, the Committee approved recommending to the full Board that it consider delegating authority to staff to approve change orders for the Anderson Dam Tunnel Project at the amounts stated and that the CIP Committee receive regular monthly reports with information regarding approved change orders, pending change orders, and the cumulative amounts.

Valley Water's Board of Directors accepted the CIP Committee recommendations at its regular meeting on May 25, 2021. Staff is therefore providing the October 2021 monthly CIP Committee update as stated below.

Construction Contract Change Orders Status

No Contract Change Orders were executed in October.

ATTACHMENTS:

Attachment 1: ADTP Construction Contract Change Orders Status

File No.: 21-1195

Agenda Date: 11/15/2021
Item No.: 4.2.

UNCLASSIFIED MANAGER:

Christopher Hakes, 408-630-3796

**Anderson Dam Tunnel Project
Construction Contract
Change Orders Status**

	Date	Description	Contract Amount	Contingency Amount	Approval Level
	4/27/2021		\$161,140,321	\$40,000,000	Board
1		CO1**			
2					
3					
4					
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9					
		Contract Amount and Remaining Contingency	\$XXXX	\$YYYY	

**CO1 - Change Order No. 1 & so on

Number of Change Orders Approved Previously	Number Of Change Orders Approved Current Month	Total Number Of Change Orders Executed To Date
0	0	0

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Santa Clara Valley Water District

File No.: 21-1196

Agenda Date: 11/15/2021

Item No.: 4.3.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Receive Information on Upcoming Consultant Agreement Amendments for Capital Projects.

RECOMMENDATION:

Receive information on upcoming consultant agreement amendments for capital projects.

SUMMARY:

At the March 28, 2017 meeting, the Board of Directors approved revising the Capital Improvement Program (CIP) Committee's purpose to include monitoring implementation progress of key projects in the CIP. At their June 29, 2020 meeting, the CIP Committee requested this topic be added as a standing item on all future CIP Committee meeting agendas, and that staff provide updates on consultant agreement amendments for capital projects which may include modifications to scope, schedule, and/or budget.

There is one consultant agreement amendment for a capital project presented for the Committee's information.

1. Amendment No. 3 to Standard Consultant Agreement A3876G between the Santa Clara Valley Water District and Carollo Engineers, Inc., for the Potable Reuse Grant Funding Program, Project No. 91304001 (Time Extension) (V. Gin)

Staff has executed Amendment No. 3 to Agreement A3876G with Carollo Engineers, Inc. for the Potable Reuse Grant Funding Program, Project No. 91304001 extending the term of the Agreement by two years, from December 31, 2021 to December 31, 2023.

This Agreement continues technical support to develop an integrated grant and low-interest rate loan program to maximize state and federal funding opportunities for Valley Water's recycled and purified water programs. A broad vision for grant/loan requests was developed based upon potential future Valley Water recycled and purified water projects and currently available grant and loan opportunities. In addition, a funding strategy has been developed for potential projects to prepare for the necessary grant applications.

The technical program support includes grant (and possibly loan) project development, as well as an over-arching strategy for the program that maximizes funding competitiveness. Work to be performed under this Agreement will develop appropriate technical documents that define grant program elements in a manner that maximizes funding potential. The technical support

will take into consideration many factors including project benefits, costs, schedule, public and political acceptance while comparing available funding programs, grant amounts, and funding priorities. This work will also explore opportunities to include multiple agencies and partnerships, including partner agencies and private water companies.

ATTACHMENTS:

None.

UNCLASSIFIED MANAGER:

Vincent Gin, 408-630-2633



Santa Clara Valley Water District

File No.: 21-1246

Agenda Date: 11/15/2021
Item No.: 4.4.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Review Information Regarding Cost Increase for the Anderson Dam Seismic Retrofit Project.

RECOMMENDATION:

Review information regarding cost increase for the Anderson Dam Seismic Retrofit Project.

SUMMARY:

The Total Project Cost of the Anderson Dam Seismic Retrofit Project (ADSRP) has increased by \$566 million from \$617 million (FY2022-FY2026 CIP) to \$1.183 billion (all dollar values referenced are uninflated). Broadly, the reasons for this cost increase include the extension of the project construction schedule from 5 years to 10 years, additional environmental and permitting related costs, design changes, dam safety regulator mandated modifications and the previous undervaluation of Anderson Dam Tunnel Project cost. Further details are explained in the presentation (Attachment 1).

ATTACHMENTS:

Attachment 1: ADSRP - Total Project Cost Increase

UNCLASSIFIED MANAGER:

Christopher Hakes, 408-630-3796

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Anderson Dam Seismic Retrofit Project

November 15, 2021

Agenda

Background

Project Cost

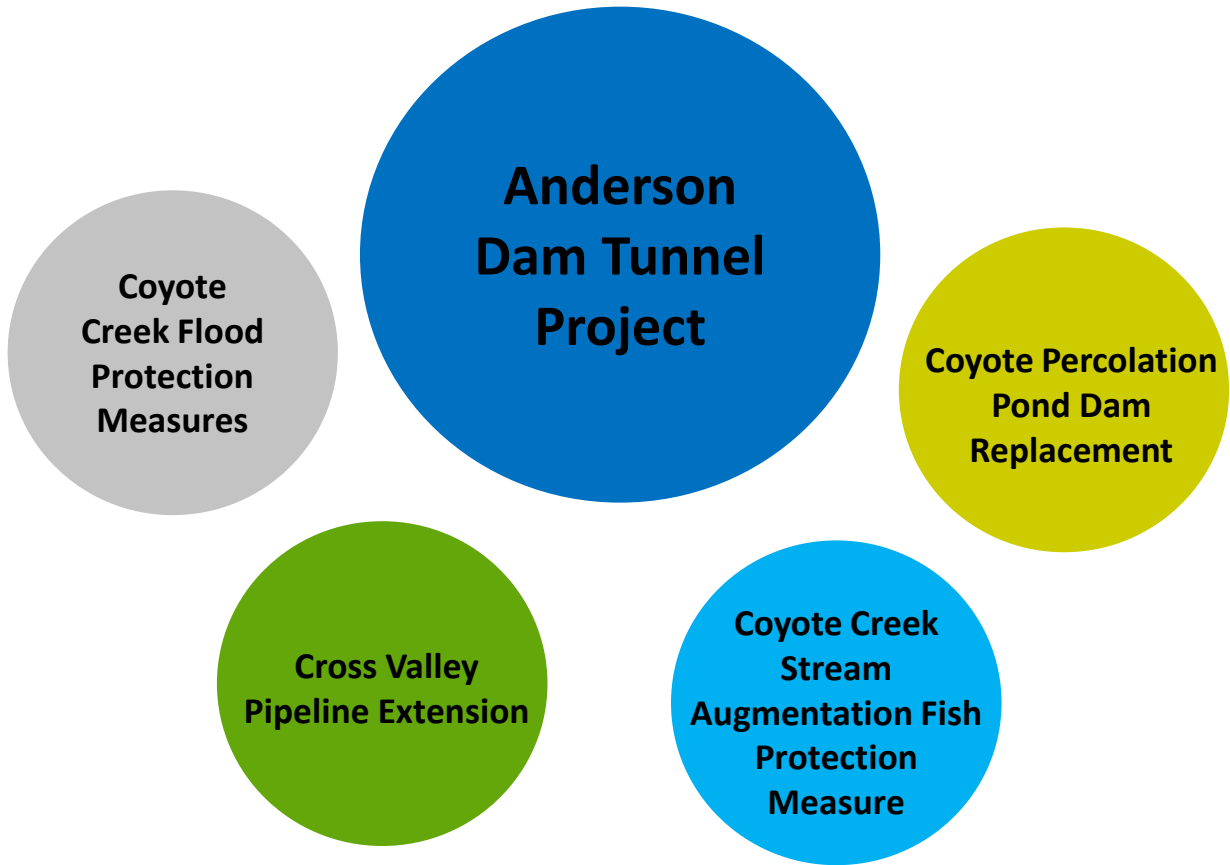
Current Status

Anderson Dam Seismic Retrofit Project

Background

- Anderson Dam forms Anderson Reservoir, holding 90,000 acre feet of water when full and the largest of Valley Water's reservoirs.
- In 2012, following a seismic stability analysis, Valley Water began plans to retrofit the dam to meet current safety standards, creating the Anderson Dam Seismic Retrofit Project (ADSRP).
- On February 20, 2020, the Federal Energy Regulatory Commission (FERC) issued an order to Valley Water to undertake early implementation interim risk reduction measures associated with ADSRP immediately.

Anderson Dam Federal Energy Regulatory Commission Order Compliance Projects (FOCP)



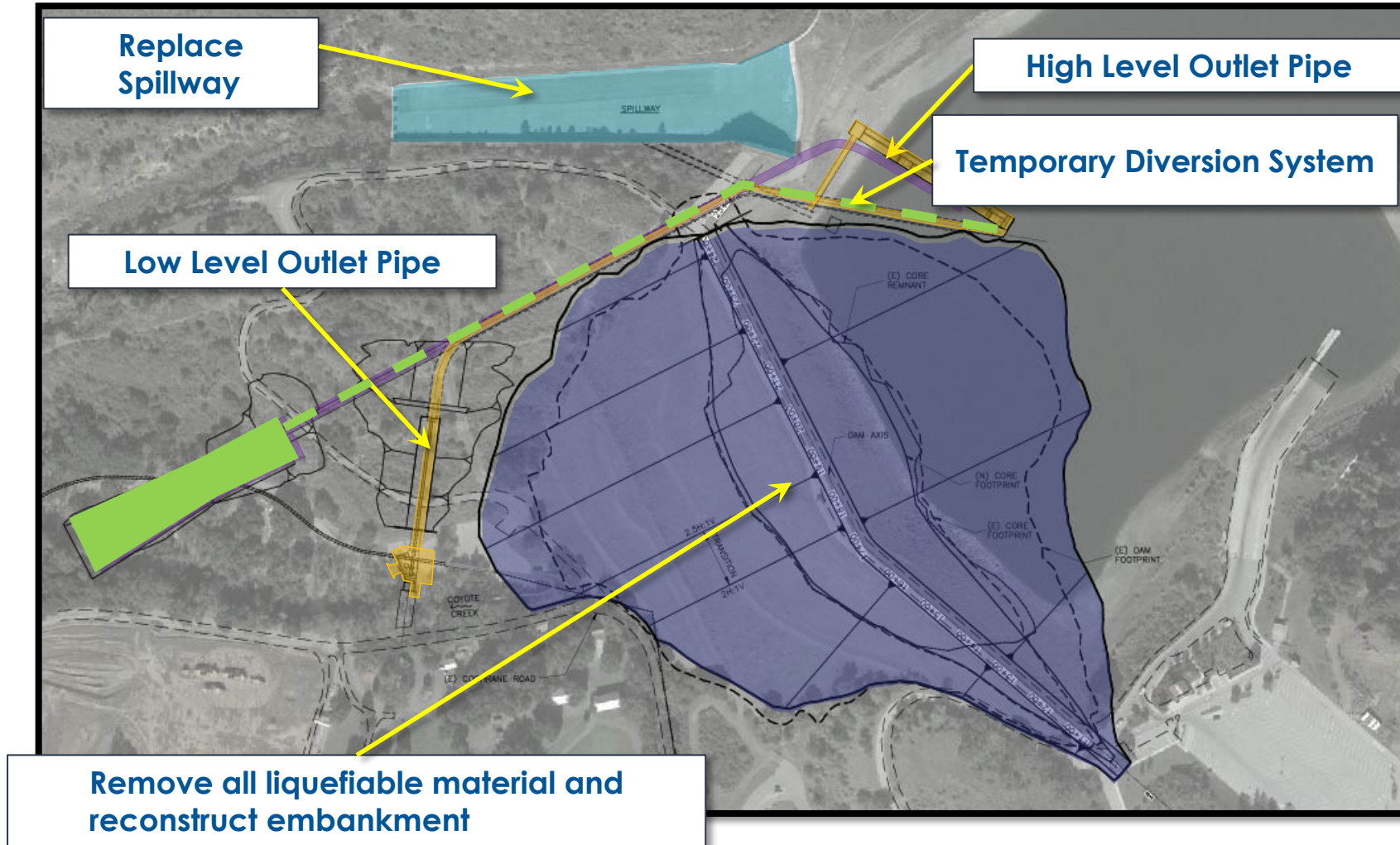
ADSRP

- Seismic retrofit of dam embankment
- Construction of new higher capacity outlet tunnel and outlet works
- Replacement of concrete spillway and raising wall height 9-feet to safely discharge large storm flows
- Increase dam crest height 7-feet

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Anderson Dam Seismic Retrofit Project Components

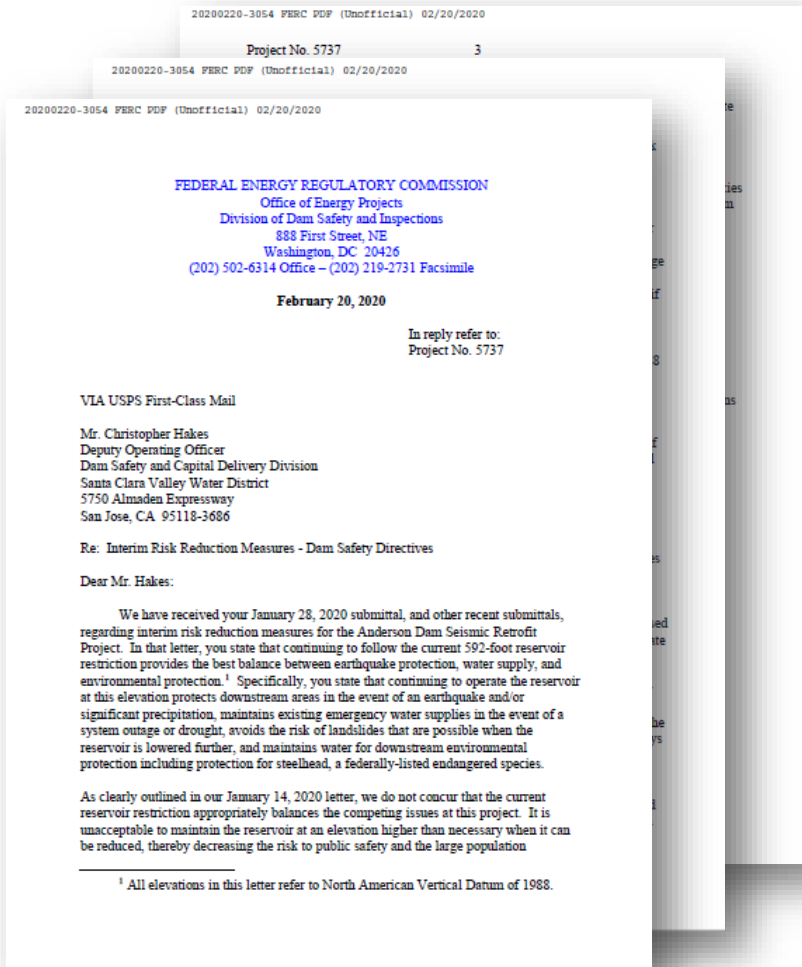
5



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FERC Directive: Risk Reduction Measures

6



1. Lower reservoir to new restriction (El. 565')



2. Take all necessary measures to safely prepare and drain the reservoir to El. 488'



3. Oct. 1 - Begin draining reservoir to dead pool (El. 488')



4. Develop plan to maintain dead pool elevation in event of significant inflow



5. Expedite design and construction of new Outlet Tunnel



6. Secure permits and complete design of larger Seismic Retrofit Project



Agenda

Background

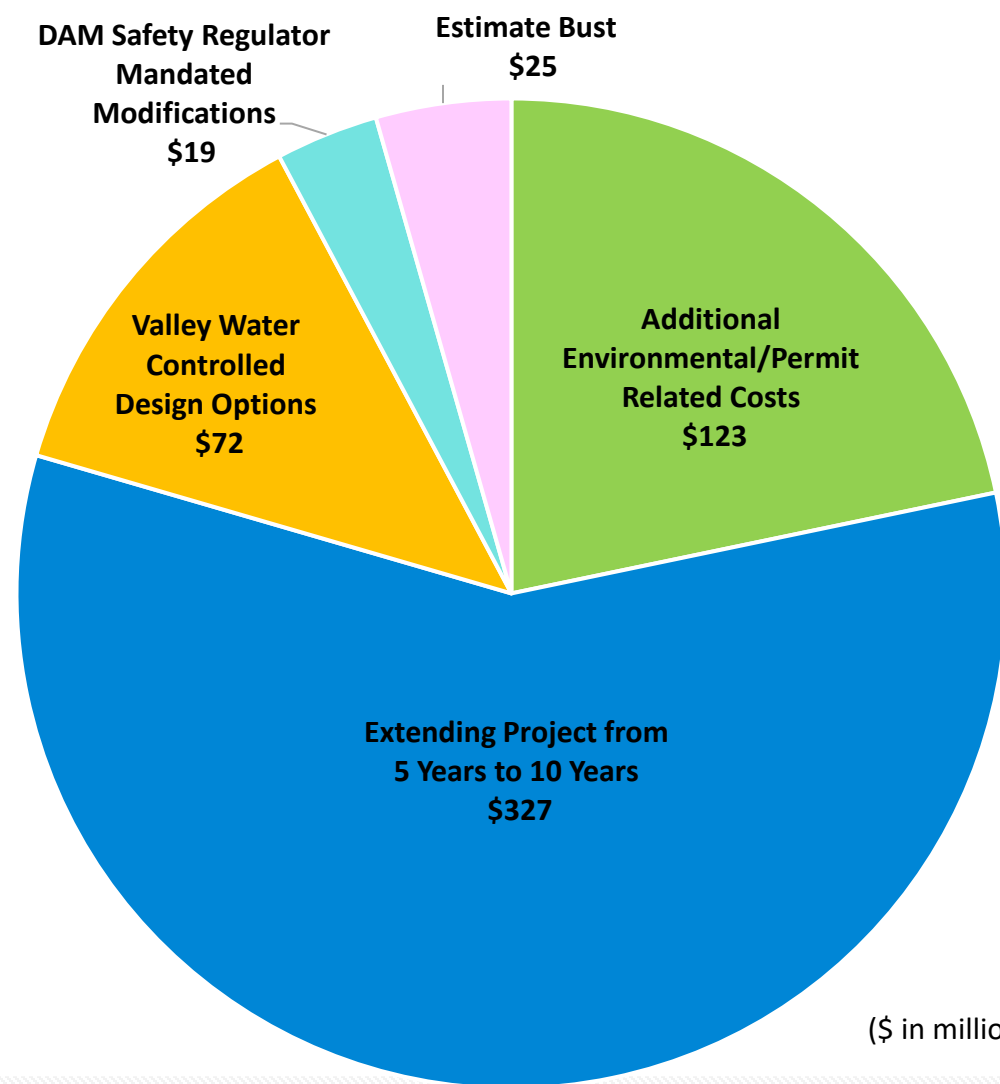
Project Cost

Current Status

Anderson Dam Seismic Retrofit Project: Cost Increases

- FY 21: \$513M (Uninflated)
- FY 22: \$617M (Uninflated)
- FY 23: \$1.183B (Uninflated)

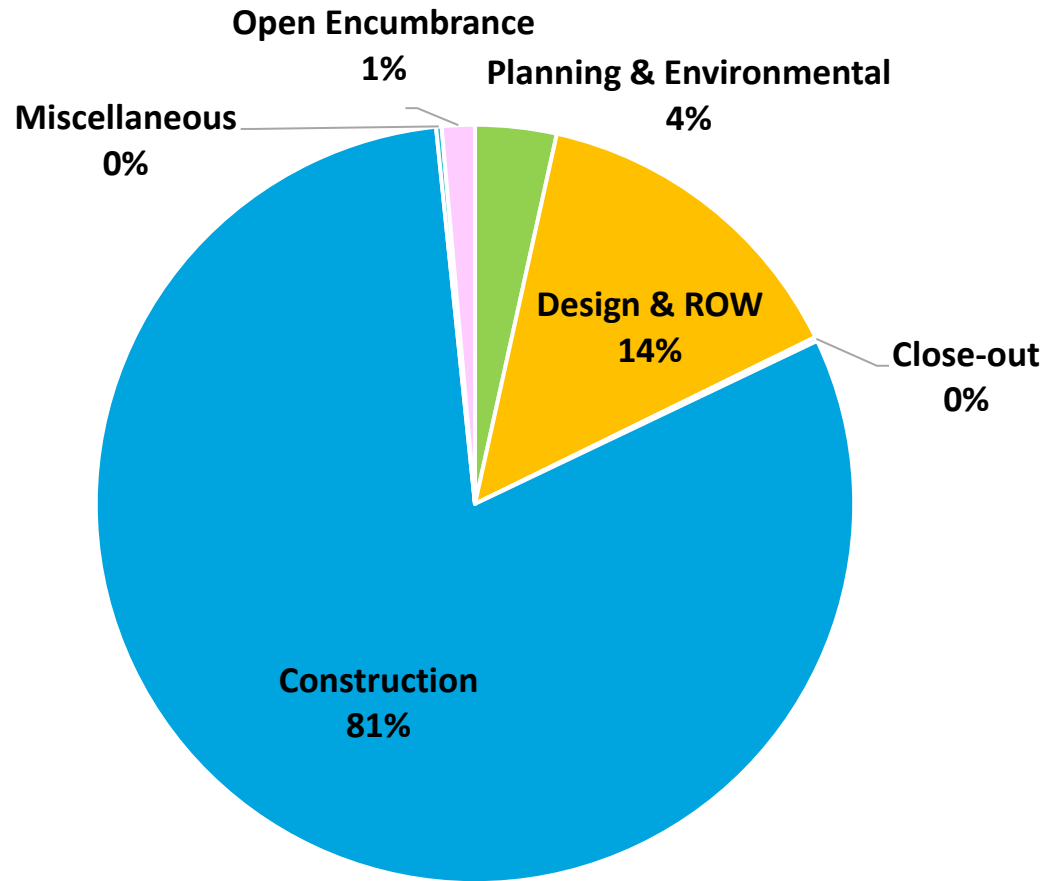
+ \$566M



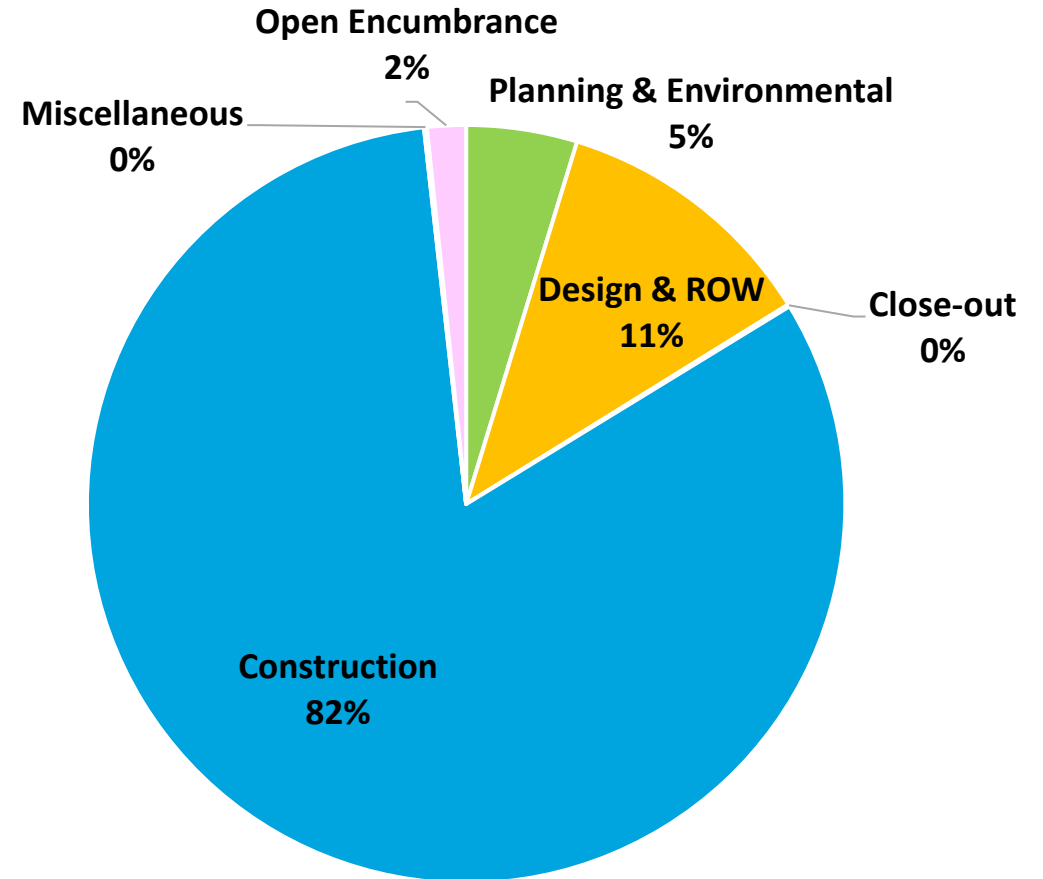
(\$ in millions)

Project Cost: Approved and Proposed by Phase

FY2022-26 CIP Total - \$617M

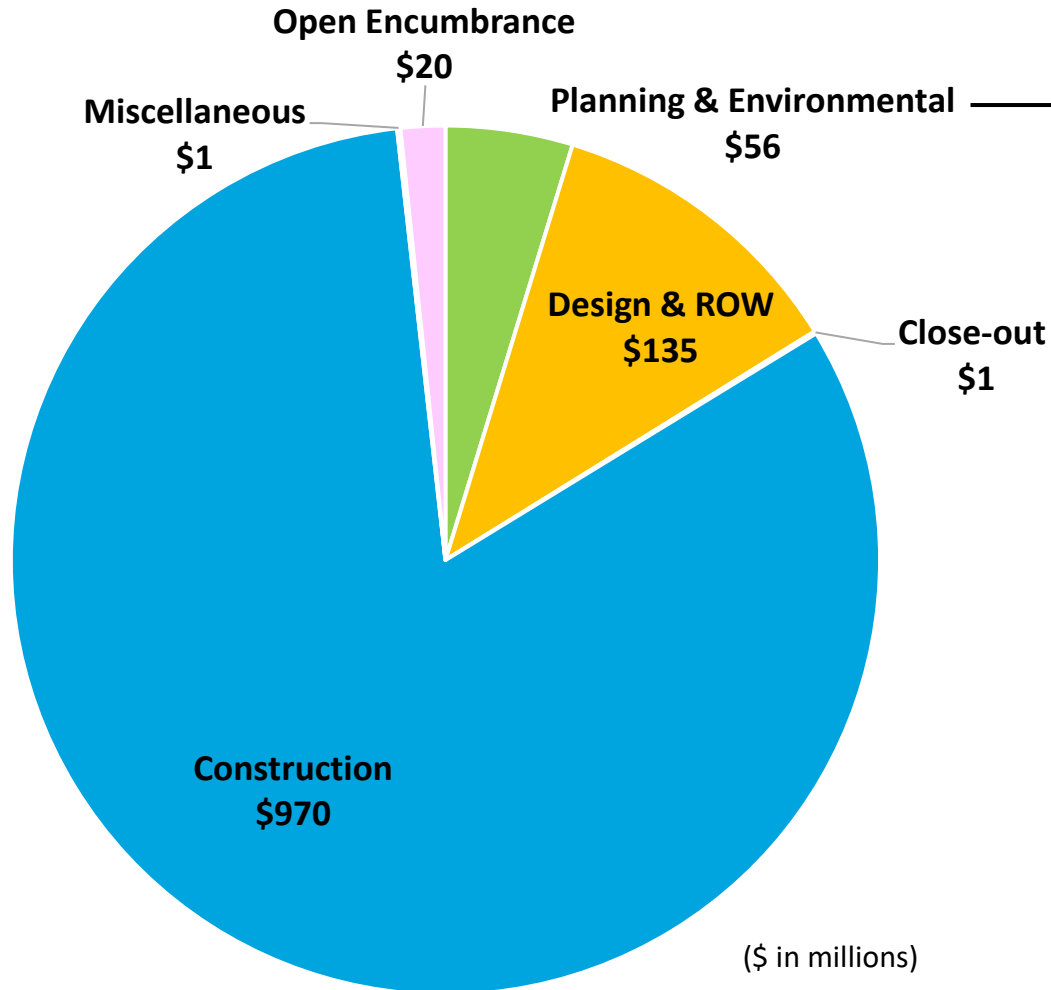


Proposed Project Total - \$1.183B



Project Cost: Planning & Environmental

Proposed Project Total - \$1.183B



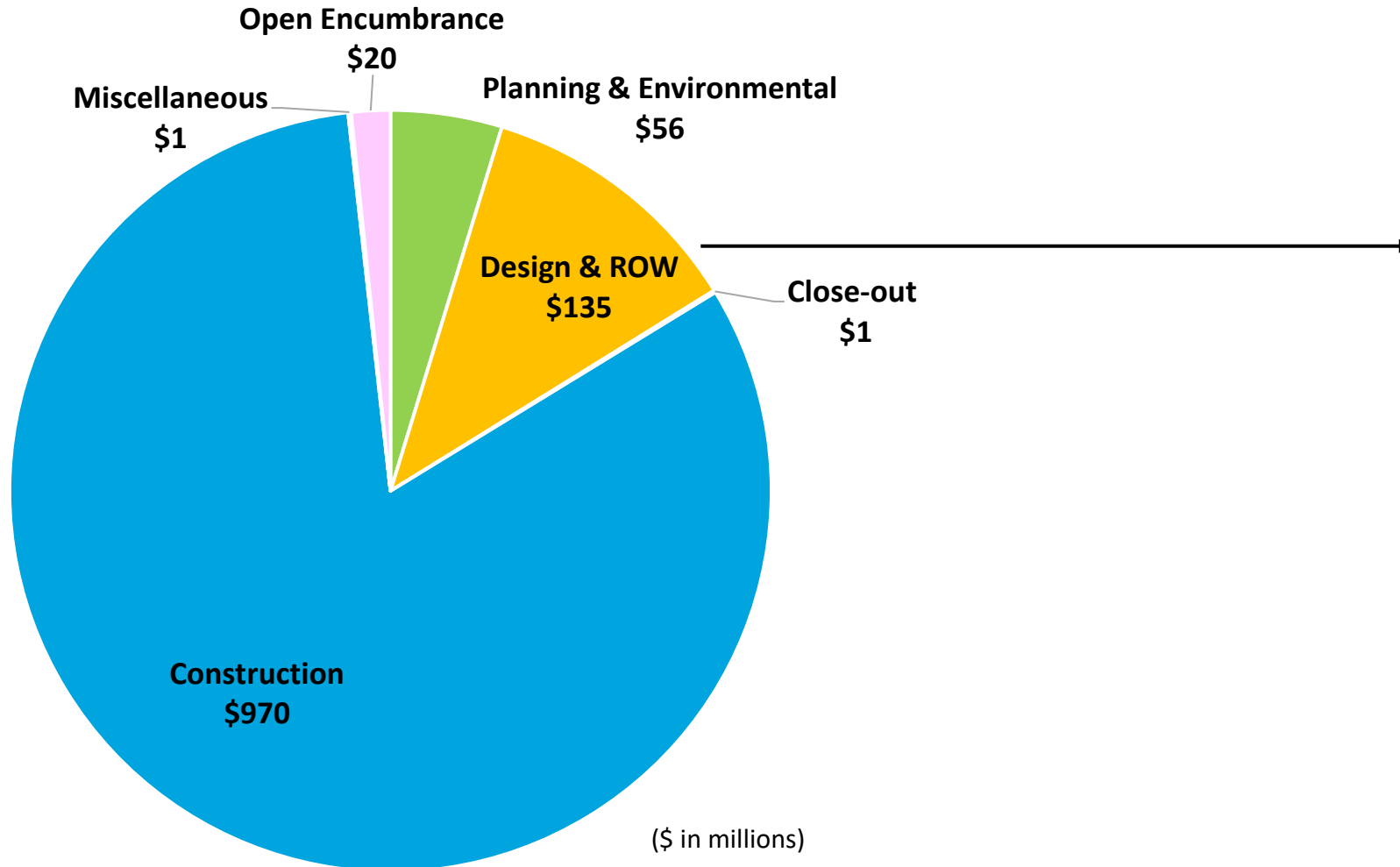
Total \$56M



Project Cost: Design & ROW

11

Proposed Project Total - \$1.183B



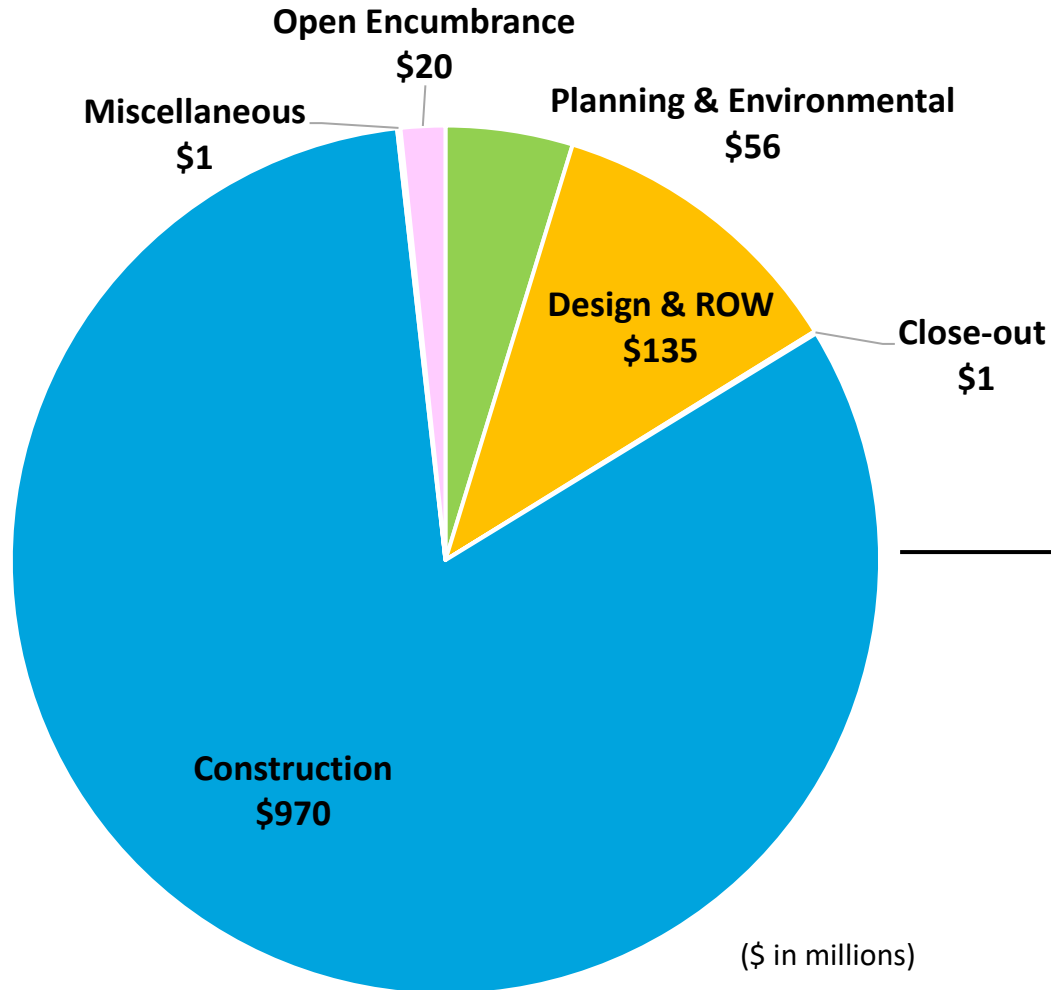
Total \$135M



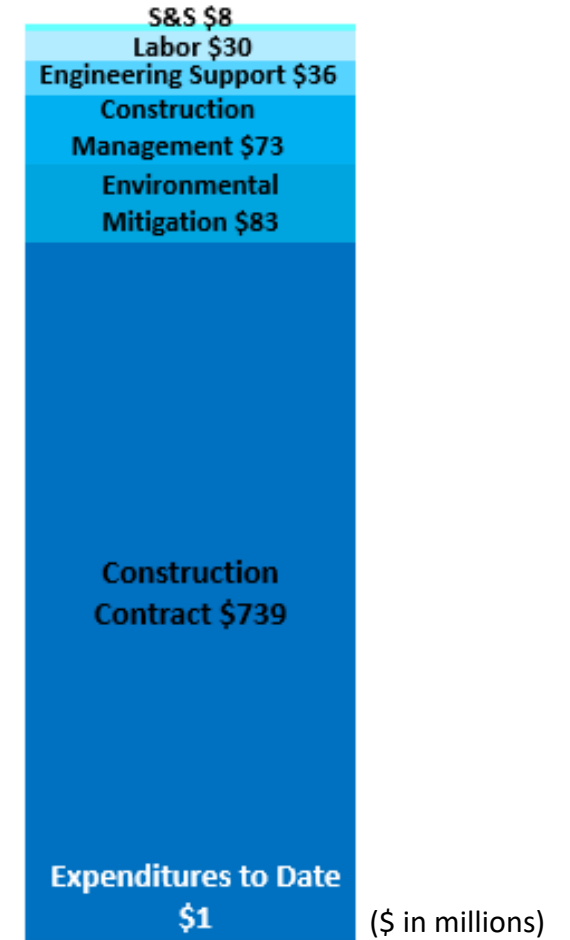
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Project Cost: Construction

Proposed Project Total - \$1.183B



Total \$970M



Cost Increase by Fiscal Year

13

Proposed Planned Expenditure (\$ in thousands)

	Actuals - FY20	Open Enc.	FY 21	FY 22	FY 23	FY 24	FY 25	FY 26
A) Planned Annual Expenditures	\$ 54,393	\$ 8,663	\$ 35,869	\$ 126,937	\$ 71,910	\$ 66,690	\$ 49,130	\$ 43,858
B) Proposed Annual Expenditures	\$ 54,393	\$ 19,586	\$ 33,501	\$ 126,937	\$ 160,854	\$ 115,852	\$ 92,295	\$ 85,120
C) Variance (B - A = C)	\$ (0)	\$ 10,923	\$ (2,368)	\$ -	\$ 88,944	\$ 49,162	\$ 43,165	\$ 41,262

	FY 27	FY 28	FY 29	FY 30	FY 31	FY 32	TOTAL
A) Planned Annual Expenditures	\$ 41,300	\$ 41,300	\$ 41,300	\$ 29,350	\$ 5,790	\$ 440	\$ 616,930
B) Proposed Annual Expenditures	\$ 85,120	\$ 85,120	\$ 104,960	\$ 104,885	\$ 94,595	\$ 20,363	\$ 1,183,583
C) Variance (B - A = C)	\$ 43,820	\$ 43,820	\$ 63,660	\$ 75,535	\$ 88,805	\$ 19,923	\$ 566,653

Agenda

Background

Project Cost

Current Status

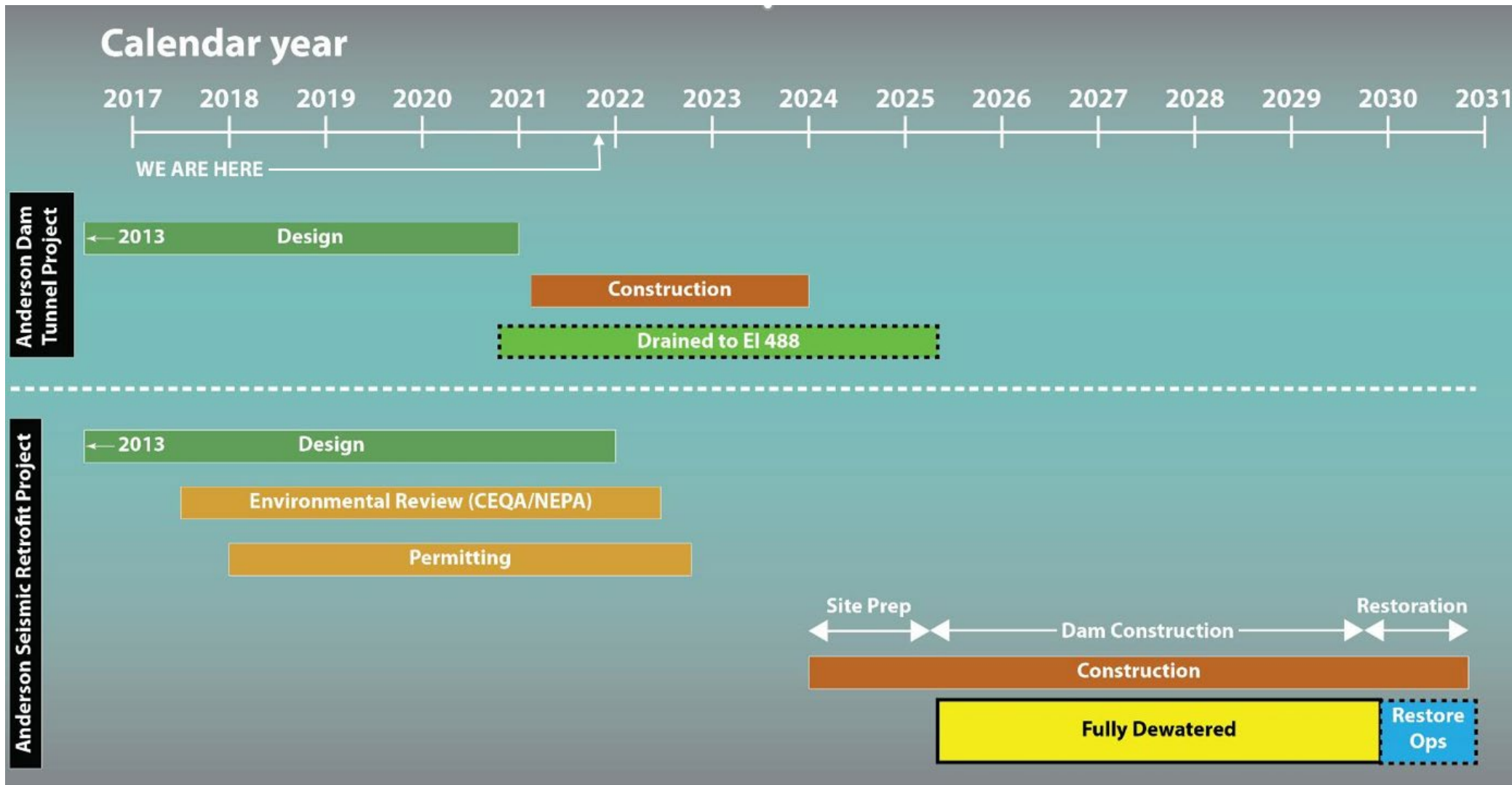
FOCP Current Status

15

- Reservoir Drawdown to Deadpool and Maintain Level at Deadpool – **Complete**
- Anderson Dam Tunnel Project (ADTP) Construction – **On-going**
- Anderson Dam Tunnel Operation and Maintenance – **Post ADTP Construction**
- Bank and Rim Stability Improvements (**Included in ADTP**)
- Existing Intake Structure Modifications (**Included in ADTP**)
- Creek Channel and Bank Erosion Control Modifications (**Included in ADTP**)
- Imported Water Releases and Cross Valley Pipeline Extension – **On-going**
- Coyote Percolation Dam Replacement – **In Design**
- Coyote Creek Flood Management Measures – **In Design**
- Steelhead Fish Avoidance and Minimization Measures – **In Design**
- Implementation of Additional Project Specific Avoidance and Minimization Measures - **In Planning/Design**

Project Schedule

16



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45



Attachment 1, Pg. 17 of 17



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Santa Clara Valley Water District

File No.: 21-1197

Agenda Date: 11/15/2021

Item No.: 4.5.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Review Significant Project Plan Updates Since Adoption of the Fiscal Year 2022-26 Capital Improvement Program Five-Year Plan.

RECOMMENDATION:

Review Significant Project Plan Updates Since Adoption of the Fiscal Year 2022-26 (FY 22-26) Capital Improvement Program (CIP) Five-Year Plan and provide feedback, as necessary.

SUMMARY:

Updates to capital project plans are considered to be significant if total project costs (TPC) increase or decrease by more than \$1 million, project completion is extended beyond one year, or if there are any changes to project scope. Summaries of the significant project plan updates for capital projects since the Board's adoption of the FY 22-26 CIP Five-Year Plan are provided below, organized by type of improvement. A full list of all capital project changes is included as Attachment 1.

The scope, schedule, and cost increases summarized below and included in Attachment 1 will be reflected in the FY 2023-27 Preliminary CIP, which is scheduled to be presented to the CIP Committee in December 2021 and to the Board in January 2022 with corresponding financial analysis of impact to each respective Fund. The TPC increases or decreases (with inflation) detailed below and in Attachment 1 by fund are as follows: Water Utility Enterprise Fund (Fund 61) increased by \$785.968M; Watersheds Stream Stewardship Fund (Fund 12) decreased by \$27.223M; Safe, Clean Water and Natural Flood Protection Program Fund (Fund 26) increased by \$14.881M; and Information Technology Fund (Fund 73) decreased by \$1.342M.

WATER SUPPLY

Storage Facilities:

91854001 Almaden Dam Improvements Project: TPC decreased by \$1.295M

The uninflated TPC remains the same, however the inflated TPC decreased by \$1.295M. The project completion schedule remains the same, but the environmental phase was updated to accommodate the environmental review process. The project's planned expenditures were revised to reflect the burn rate for FY22 through FY26, to accurately align with updated project schedule. As a result of the shift in phase schedules, the overall TPC decreased due to inflation changes.

91864005 Anderson Dam Seismic Retrofit Project: TPC increased by \$588.746M/Scope change

There was no change to the project schedule. **Changes to project scope include:** 1) Addition of an in-reservoir access roads approximately four (4) miles long to be constructed to stockpile areas SA-K and SA- L located inside the reservoir; a temporary bridge to cross reopened North Channel, dredging of sediment at the upstream side of the dam to construct the foundation of the dam, operation of the active water treatment system for four (4) years, increased haul and processing of excavated materials to stockpile areas SA-K and SA-L over longer distances during embankment construction, heavy equipment cost over precipitation season, a new 33-inch bypass pipeline and downstream control valves in the low-level outlet works for making cold water releases to Coyote Creek, increase in the size of concrete encasement between low-level outlet tunnel and downstream outlet works and mass concrete backfill under outlet structure required. 2) Other miscellaneous additions which include a bridge over Coyote Creek, maintenance access to Northern Channel and reopening, electrical work, SCADA work and security work, instrumentation required for four (4) interim dams instead of two (2) interim dams, wick drains and drainage blanket. 3) Winterization of the Stage 2B/3A interim dams (includes placement of rip-rap on downstream of interim dams, etc.). 4) New Unlined Spillway, a requirement from the dam safety regulatory agencies, increased spillway invert thickness due to post 60% field investigation findings of most of spillway underlain by weak soil like rock and replacement of spillway crest base. 5) Increase in the Sloping intake size by approximately 33% in size to accommodate the addition of a separate 33-inch bypass pipeline with three intakes. 6) Addition of Mechanical fish screens for all intakes in the sloping intake structure (three 54-inch intakes for 78-inch pipeline and three 30-inch intakes for 33-inch bypass pipeline). 7) Additional costs for NOA related construction air monitoring to cover two additional years of earthwork activities. 8) Additional Environmental Mitigation related projects. **Changes to project costs include:** 1) Planning & Environmental Phase costs have increased by \$34.597M due to Environmental Consultant fees, Santa Clara Habitat Agency fees, Legal support fees, Environmental Review, and additional Valley Water labor. 2) Design Phase & ROW costs have increased by \$47.327M due to Project Management and Design Consultant fees, Division of Safety of Dams fee, Right-of-Way Acquisitions, and additional Valley Water labor. 3) Construction Phase costs have increased by \$473.807M due to increased Construction Management and Engineering Support During Construction Consultant fees, revised Construction Contract costs, Environmental Mitigation, and additional Valley Water labor. 4) Additionally, the encumbered balances have increased by \$10.923M as a result of funds being added to various contracts and consultant agreements (Flatiron West Inc., Horizon Water and Environment, LLC, COWI North America Inc., Black and Veatch Corporation, URS Corporation, Best Source, HDR Engineering, Inc., VNF Solutions, LLC, AECOM Technical Services, Inc.) and Other open Purchase Orders.

91234002 Coyote Pumping Plant ASD Replacement: TPC increased by \$11.773M

The Design Phase schedule has been extended to reflect the current status of the design-build entity procurement process and to account for the overlap that occurs between design and construction in a project that is delivered using the progressive design-build delivery method. The overall project duration has not changed. The environmental phase cost has increased due to the extra effort required to coordinate the completion of the National Environmental Policy Act (NEPA) document with the United States Bureau of Reclamation. As the first progressive design-build project for Valley Water, the project team was also responsible for developing templates specific to the progressive design-build project delivery method. The design phase cost has increased to account for the

additional funds needed to cover the cost of preparing those documents, including the Request for Qualifications (RFQ), Request for Proposal (RFP), and the design-build agreement, as well as to cover the review of the documents submitted by potential proposers, including the Statement of Qualifications (SOQ) and the proposal, and to cover negotiations for phase 1 of the design-build agreement. Furthermore, additional funds are needed to cover phase 1 of the design-build agreement, currently estimated to be 10% of the latest construction cost estimate. Phase 1 includes review of the preliminary design documents, development of construction cost estimates, design workshops with staff, phase 2 (construction) negotiations, and completion of the final design. This cost increase also accounts for the anticipated high level of effort that will be required to manage the design-build agreement, including close oversight of cost estimates and invoicing, and the staff time that will be required to collaborate with the design-build entity as the design progresses. The original construction cost estimate had not been updated and was developed based on 2013 conditions. The design consultant (Brown & Caldwell) has prepared a detailed Class 4 construction contract cost estimate using the 30% design documents. The estimate was prepared using quantity take-offs, vendor quotes and equipment pricing. The high equipment costs reflect current market conditions, via the incorporation of vendor quotes, which have further been impacted by recent supply chain disruptions. The Construction Phase cost has increased by \$8.7M to reflect the latest Class 4 construction contract cost estimate.

91894002 Guadalupe Dam Seismic Retrofit - Design & Construction: TPC decreased by \$1.939M

The uninflated TPC remains the same, however the inflated TPC decreased by \$1.939M. Project completion schedule remains the same at FY28. Adjustments have been made to the planned expenditures in FY22, FY23, and FY24 based upon the current burn rate projections (reduced FY22, increased FY23 and FY24, net change zero). As a result of the shift in planned expenditures, the overall TPC decreased due to inflation changes.

91954002 Pacheco Reservoir Expansion Project: TPC decreased by \$58.179M

The uninflated TPC remains the same at \$2.205B, however the inflated TPC decreased by \$58.179M. Project completion schedule remains the same at FY32. As a result of project evolution, the current cost for planning, environmental and design phases have been re-evaluated, resulting in changes to phase cost. Factors that contributed to the changes in phase costs are mainly a result of requiring less resource hours to planning and environmental, but additional resource hours to design for project support. FY21 (\$24M), FY22 (\$15.4M), FY23 (\$11.9M), FY24 (\$2.4M) decreased, yet FY25 (\$33.9M) and FY26 (\$19.8M) increased (net change is zero).

91214010 Small Capital Improvements, San Felipe Reach 1: TPC decreased by \$3.973M

Small Capital project forecasts are revised each year. Asset rehabilitation projects are added, removed, and rescheduled based on asset condition and project need. In addition, project costs are updated each year based on market conditions. These revisions to both schedule and costs cause several minor changes in expected expenditures over the forecasted period.

Transmission Facilities:

95084002 10-Year Pipeline Rehabilitation Project: TPC decreased by \$1.051M

The uninflated TPC remains the same. However, the inflated TPC decreased by \$1.051M. The project completion schedule remains the same at FY27. Environmental Phase costs have increased to fund the PMP programmatic EIR, project staff, environmental staff, and consultant task order. A budgetary estimate (\$800,000) has been provided by Panorama Environmental, Inc., the environmental consultant working on the PMP update. Design Phase, Construction Phase, and Close-Out Phase have decreased because the Design Phase Work Plans for Snell Pipeline and West Pipeline have been completed that include a detailed analysis of the project costs and expenditures. As a result of the shift in phase costs, the overall TPC decreased due to the avoidance of inflation.

92304001 Almaden Valley Pipeline Replacement: TPC increased by \$20.572M

Project schedule remains the same. However, the Construction Phase was extended by 1 year to accommodate new information provided by the Programmatic EIR. Each new fiscal year, the CIP adds the upcoming FY planned expenditures from the original Project Plan. The 21-year total Project Plan was initiated in FY21, and the CIP only provides for a 15-year projection. This CMM update adds FY37 into the 15-year projection. There were also cost increases to planning and environmental phases due to new data that was provided during the Programmatic EIR. Note that budget for years FY38-FY41 is not included in TPC, but is reflected in the funding models via placeholder.

95044001 Distribution Systems Implementation Project: TPC increased by \$1.048M/Schedule extended by 2 years

Through the development of the consultant's scope of services and completing the consultant selection process for the accompanying WTP Implementation Project (Project No. 93044001), staff has a more refined plan for the work and project cost. Since the project schedule will extend to the end of FY25, additional labor cost is needed to support the work. The project schedule extended by two years.

26764001 IRP2 Additional Line Valves Project: TPC increased by \$4.540M

Overall project schedule remains the same. However, the Environmental Phase was extended by four years. The IRP2 Additional Line Valves Project will be constructed with the 10-year Pipeline Inspection and Rehabilitation Projects. The project costs have increased for the following reasons: Environmental Phase costs have increased because CEQA clearance must be coordinated with the 10-Year Pipeline Inspection and Rehabilitation Project. Concurrent implementation of the IRP2 Project and the 10-year Pipeline Inspection and Rehabilitation Project will minimize impacts to local retailers and reduce amount of water released to the environment. Design Phase costs have increased due to the purchase of property from PG&E and UPRR, ongoing coordination needed to acquire easements for construction and long-term maintenance of the facilities proposed as a part of the project, and delays in acquiring encroachment permits from outside agencies who were experiencing staffing constraints as a result of COVID-19 restrictions. The encroachment permit delays required additional staff time to follow-up with outside agencies to procure permits. These encroachment permits were necessary to proceed with preliminary investigations, and subsequently the design of the project. Construction costs have increased based on the engineer's estimate developed during the design phase. The primary reasons are due to larger size vaults to house and access mechanical and electrical equipment, higher material costs, and higher excavation shoring costs than were previously estimated.

Treatment Facilities:

93294051 RWTP Residuals Management: TPC increased by \$1.916M/Schedule extended by 3 years

The Project schedule was extended by three years. The Construction Phase was extended by three years to capture ongoing contract legal issues. Project costs have increased due to ongoing Contract Legal issues as well as the rental of a mobile centrifuge and on-call maintenance agreements.

93294058 RWTP Residuals Remediation: TPC increased by \$9.162M

The overall project schedule remains the same. However, the Design Phase was extended by 2 years to accommodate the mobile centrifuge and on call agreement. The design phase has been extended to 6/30/2023 as the mobile centrifuge and on-call standing order maintenance contract are line items under this phase and must remain open and active until the end of construction. The Construction Phase has been adjusted to end at the end of FY23. The Close-out Phase has been adjusted to align with construction schedule adjustments. The Design Phase cost has been increased to reflect a previously procured on-call standing order maintenance contract. The Construction Phase cost has been increased to account for the higher than estimated construction contract bid. The Construction Phase cost was also increased to include engineering support services during construction and operations involvement to help ensure successful implementation of the project.

93294057 RWTP Reliability Improvement Project: TPC increased by \$101.801M/Schedule extended by 1 year

The overall project schedule has been extended by 1 year to accommodate the updated closeout phase schedule. The Design Phase of the project has been extended to 2023 to accommodate the re-packaging and re-bidding of the remaining phases of the project. The Construction Phase of the project has been extended to reflect the duration required to complete Phases III - VI. Design Phase cost increases are mainly due to the remaining phases requiring repackaging of the plans and specifications to accurately reflect the status of the work for construction contractors to bid on. The increased Construction Phase cost reflects the first detailed review and cost estimate of outstanding improvements remaining from the previous Reliability Improvement Project construction project initiated in 2015.

93764004 Small Capital Improvements, Water Treatment: TPC decreased by \$2.550M

The forecasts are revised each year. Asset rehabilitation projects are added, removed, and rescheduled based on asset condition and project need. In addition, project costs are updated each year based on market conditions. These revisions to both schedule and costs cause several minor changes in expected expenditures over the forecasted period. It's not a single asset rehabilitation project that leads to the change, but rather the cumulative total of multiple changes.

93044001 WTP Implementation Project: TPC increased by \$1.319M/Schedule extended by 2 years

Increase in Planning and Environmental phases due to additional consultant costs and staff labor costs to manage the consultant through FY25. Project schedule extended by two years due to delays in consultant negotiations and finalizing the agreement with the consultant.

Recycled Water Facilities:

91304001 Purified Water Project (PWP): TPC increased by \$113.184M/Schedule extended by 1 year

Overall project schedule extended by 1 year to FY29 to accommodate the addition of a close out phase. In June 2021, Valley Water completed the Countywide Water Reuse Master Plan (CoRe Plan) which identified feasible opportunities to expand water reuse. The CoRe Plan outlines indirect and direct potable reuse project portfolios in a programmatic approach to consider a wide range of reuse opportunities for flexible implementation. To this end, Valley Water directed the PWP consultant to consider project options that include the possibility of obtaining treated effluent from the City of Palo Alto, in addition to the already planned transfer of effluent from the City of San Jose. The addition of the effluent transfer option from the City of Palo Alto will require additional preliminary investigations and a subsequent change in the project scope. The total project costs have increased by \$106.514M (uninflated) due to the addition of a second option to transfer treated effluent from the City of Palo Alto and in order to obtain better pricing from the P3 entity, additional preliminary work was added to the overall project scope. Schedule was updated to include a closeout phase to be complete in FY29. The overall project schedule will be extended by one year to accommodate the addition of a closeout phase.

91094009 South County Recycled Water - Short Term 1B: TPC increased by \$5.073M/Schedule extended by 2 years

The project schedule was extended by two fiscal years due to NEPA clearance delays and the project advertisement for construction bids was placed on hold until discussions of the governance of the South County Recycled Water Pipeline system progressed. A Technical Working Group between Valley Water, City of Gilroy and City of Morgan Hill was approved by the City Councils and the Valley Water Board of Directors at a Joint Session between the parties on 8/23/2021. The project scope changed due to switch from high density polyethylene pipe (HDPE) to welded steel pipe due to the utility congestions and the constructability of the HDPE. Project cost increases are due to purchase of additional real estate along Phase 1C and for increased construction contract costs, construction management services, construction inspection and engineering support during construction.

91094010 South County Recycled Water Pipeline - Short Term 2: TPC increased by \$791K/Schedule extended by 2 years

The project schedule was extended by two years due to the slow-down in the residential development along the recycled water conveyance route; increase in construction phase costs are due to delays associated with unanticipated impacts from the pandemic, which have altered development planning, permitting and construction activities in the city of Gilroy. The TPC increased by \$791K due to inflation resulting from the schedule changes.

FLOOD PROTECTION

Lower Peninsula Watershed:

10394001 Palo Alto Flood Basin Tide Gate Structure Replacement: TPC increased by

\$1.041M/Scope change

The project scope was updated to remove the levee trail surface improvements. The levee trail surface improvements were intended to smoothen, strengthen, and provide an all-weather trail surface for the contractor to use during construction, and would have been installed by Valley Water's Operations & Maintenance (O&M) staff. Additional time needed for regulatory approval for the levee trail surface improvements combined with O&M staff's concerns about completing the planned work within the allotted time window further reduce the benefits of this work. In lieu of the levee trail surface improvements, the construction contractor will be required to perform in-kind repairs to the levee as needed, during the normal project work seasons. The project schedule was updated for the following Phases: Environmental Phase: Valley Water is currently in discussions with multiple regulatory agencies to obtain the necessary regulatory permits to cover the proposed project activities. In addition, Valley Water is coordinating and discussing potential required tribal and archaeological monitoring. More time is needed to acquire all necessary project permits and negotiate reasonable permit conditions. Construction Phase: In the current materials market, the contractor's steel sheet pile procurement lead time is estimated at five and a half months from time of order. Prior to the contractor ordering these materials, the contractor must design and submit their proposed Dewatering System Plan for review and approval from Valley Water, RWQCB, CDFW, and NMFS. We anticipate a minimum of seven and a half months lead time will be needed to ensure a smooth start to onsite construction and prevent delay claims and change orders due to long material procurement lead times. Construction advertisement remains on schedule, but construction start may require adjustment for approval of the Dewatering System Plan and procurement of project materials. Additionally, the proposed schedule will allow ample time to implement a contractor pre-qualification to help ensure bidding contractors are experienced in similar work conditions.

26244001 Permanente Creek, SF Creek to Foothill Expwy Project: TPC decreased by \$3.700M/Schedule extended by 3 years

Construction is complete; however, the project schedule has been extended by three years to include a plant establishment period and closeout activities. There are minor cost increases for Planning, Environmental, Design and right-of-way Phases due to various task code discrepancies. The Construction Phase cost decreased since the soil off-haul and civil construction at Rancho San Antonio was able to be completed earlier and at a lower cost than anticipated. The civil construction of the project was completed as of April 2021. However, staff will continue to work with the Rancho San Antonio contractor during the plant establishment period, which will last until February 2024. There will be some additional closeout tasks after the completion of the plant establishment period, hence the closeout Phase end date is set to June 30, 2024.

10244001 Permanente Creek, SF Bay to Foothill Expwy: TPC increased by \$787K/Schedule extended by 2 years

As a sub-project of the Permanente Creek Flood Protection Project, the project number was re-opened under Fund 12 and two fiscal years were added to the project schedule. For FY22, \$125K will be needed for the cost-share agreement with the City of Mountain View for the bleacher retrofit at the McKelvey Park Detention Basin Project, and \$325K for the Channel Improvements Project to design the retrofit and begin the construction of the retrofit in late spring 2022.

26284002 San Francisquito Creek - Construction SF Bay to Middlefield Rd: TPC increased by

\$8.068M/Schedule extended by 4 years

The overall project schedule has been extended by four years. The schedule of this project has been extended to accommodate the USACE Continuing Authorities Program Section 205 (CAP 205) process as well as the updated duration needed for the San Francisquito Creek Joint Powers Authority to apply for and receive state and federal regulatory permits. Based on the current status of the CAP 205 study and permit applications, this project will be advertised in early 2023 for construction in summer of 2023 for the creek widening sites, with Pope-Chaucer Bridge bid and construction in 2024. The end date of the Construction Phase was extended to December 2027 to cover the three-year plant establishment period and the Close-Out Phase was extended into FY 28 due to close-out time needed after the end of the plant establishment period. The total project cost for Phase 2 (Highway 101 to Middlefield Road) will increase by \$6.928M because of the need to extend the project schedule to accommodate the CAP 205 process. The environmental budget has increased to accommodate the additional efforts needed to apply for and receive the state and federal regulatory permits. The planned expenditures for right-of-way has increased to account for the cost escalation of the permanent and temporary construction easements and additional staff hours needed for the associated real estate and rights-of-way mapping tasks. Construction budget has increased to account for the construction cost escalation and the cost of two floodwalls upstream of University Avenue that were not budgeted previously. In addition, close-out budget has increased to cover the three-year plant establishment period.

Guadalupe Watershed:

30154019 Guadalupe River Tasman Drive to I-880: TPC increased by \$3.262M/Schedule extended by 2 years

The overall project schedule has been extended by 2 years due to delay in feasibility alternatives review and extension of the design schedule from two to three years; based upon these changes the start of construction will be moved out by two years to FY25.

Coyote Watershed:

26174041 Berryessa Creek, Calaveras to I-680 Corps: TPC increased by \$768k/Schedule extended by 3 years

The overall project schedule has been extended by 3 years to reflect the completion of the Construction and Close-Out Phases for the project from FY21 to FY24. The Construction Phase extension is required to meet the recent San Francisco Bay Regional Water Quality Control Board permitting requirements regarding the Stormwater Management Plan and the Adaptive Management Plan for maintenance purposes. The additional 3 years for closeout are necessary for payment of Valley Water's participation costs for the design and construction work managed by the U.S. Army Corps of Engineers as outlined in the Project Cooperation Agreement for the project.

40174005 Berryessa Ck, Lower Pen Ck to Calaveras Blvd. Phase 2: TPC increased by \$1.501M

There are no changes to the project schedule. Additional funds are needed in response to higher than anticipated labor costs for in-house construction staff. Recent monthly labor spending rates during construction indicate there is insufficient budget for construction staff labor costs for FY22 and FY23. Staff estimates an additional \$500k is needed for FY22, and \$800k needed for FY23. The total

additional project funds requested is \$1.300M for the Construction Phase. Staff labor costs for Environmental, Design and Close-Out Phases were higher in FY21 by \$222k.

**40334005 Lower Penitencia Creek - Berryessa to Coyote Creeks: TPC increased by \$6.892M/
Schedule extended by 1 year**

The overall project schedule is extended by one year. Valley Water issued Notice to Proceed to Gordon N. Ball (Contractor) for construction on June 18, 2021. Construction is scheduled to be completed on December 31, 2022 (FY23). The 3-year plant establishment period will begin after construction and ending on December 31, 2025 (FY26). The total project cost increase is to account for an increase in design cost and construction cost in FY21. Project expenditures for FY21 have been moved to FY22 and through remaining FYs due to construction starting later in summer 2021 instead of summer 2020. Actual bid price and design cost have been included with FY21 expenditures. Plant establishment will now be completed in FY26.

Uvas Llagas Watershed:

26174051 Upper Llagas Creek - Land, Easements, Rights-Of-Way, Relocation, and Disposal Areas Reimbursable: TPC increased by \$3.045M

The overall project schedule remains the same. The costs to relocate various existing utilities in conflict with the project has increased due to the discovery of previously unknown underground utilities and cost increases for construction materials. The costs to acquire the last couple of remaining properties required for the project have increased, including an extended full property acquisition that involves a property relocation. The eligible costs associated with this increase will be reimbursed by DWR - State Subventions Program.

Multiple Watersheds:

00044026 SF Bay Shoreline: (TPC decreased by \$38.766M)

There is no change to the overall project schedule. The Shoreline Project cost has significantly increased from \$194M to \$545M. USACE has received a fixed \$124.3M in federal funding and now has a federal shortfall of \$91.2M. The total non-federal sponsors share of the increased project cost is \$308.54M, however Valley Water has additionally agreed to be responsible to fund the federal shortfall of \$91.2M. The project budget was originally planned to support the \$194M project cost and there are now not enough funds to support the significant increase in the project cost. However, there are enough funds in place to complete all the project elements within Reaches 1-3. On August 8, 2021, USACE awarded the Reaches 1-3 construction contract to Maloney Odin Joint Venture for \$129.8M and construction is anticipated to commence in November 2021. The non-federal sponsors share of the Reaches 1-3 contract is \$58.4M. As a result of the significant project increase, the Reach 4-5 levee and Artesian Slough Closure structure design is currently on hold for the following reasons; a) to eliminate overlap with Reaches 1-3 construction, such that we don't have contractors competing for fill, which is a key cost driver; b) to provide time for the non-federal sponsors to address financing the local cost share and federal shortfall to complete the project beyond Reaches 1-3 as authorized; and c) to identify other opportunities to complete the project beyond Reaches 1-3 at a lower cost. The Design and Environmental Phase have been extended by 12 months, so that USACE can gather additional field data and conduct hydraulic analysis required for the Union Pacific

Railroad Closure Structure and Pedestrian Bridge design.

62084001 Watersheds Asset Rehabilitation Program: (TPC decreased by \$8.849M)

The uninflated total project cost remains the same, however the inflated total project cost decreased by \$8.849M. The schedule remains the same with only a shift in proposed planned expenditures for future years. The work requests coming from Watersheds Operations and Maintenance Division can vary from year to year, depending on the immediate needs and priorities. For FY23 and FY24, the Operations and Maintenance Engineering Support Unit has requested a number of projects be handled under the Watersheds Asset Rehabilitation Program. Below is the current list and estimated construction costs planned for FY23 and FY24. FY23 (Total construction expenditures needed above current approved project plan): \$3M. **1)** Gabion repair work at San Carlos Street, Guadalupe River \$1M. **2)** Gabion repair work at Blossom Hill Road, Guadalupe River \$1M. **3)** Reinforced Concrete Box repair work at Finch Avenue, Calabazas Creek \$1M. FY24 (Total construction expenditures needed above current approved project plan): \$14M. **4)** Alviso levee repair, Alviso Slough \$2M. **5)** Malone Road retaining wall repair, Guadalupe River \$2M **6)** Levee rehabilitation, Randol Creek \$2M (was initially validated FY23 for unfunded list). **7)** Channel erosion repair, Regnart Creek \$5M (Union Pacific Trail to Bubb Road). **8)** U-frame wall repair, Permanente Creek \$3M (Mountain View Avenue to Park Avenue). As outlined, \$17M in additional funding will be needed in FY23 and FY24 to account for increased construction costs. To make up for this difference, expenditures planned from FY31 through FY34 have been reduced by \$16,382,000 and redistributed to FY23 and FY24. As a result of the shift in planned expenditures, the overall total project cost decreased due to inflation changes.

WATER RESOURCES STEWARDSHIP

Multiple Watersheds:

20444001 Salt Ponds Restoration Project: (TPC increased by \$6.826M/Schedule extended by 3 years)

The overall project schedule has been extended by three years. The recommended project will be determined at the conclusion of planning phase. Staff presented the Feasibility Study to the Board during 4/27 meeting and received approval to proceed to planning phase. During planning phase, staff will explore a robust set of alternatives, including an integrated project alternative (Feasibility Study Option C) which combines the Calabazas/San Tomas creek realignment project with SBSRP planned tidal marsh restoration project. Although the staff-recommended alternative has yet to be determined, to be conservative the budget and schedule presented herein is largely based on Option C which has the largest scope of the options that were identified in the Feasibility Study. Construction costs remained unchanged but will be revised once staff recommended alternative is presented to the Board at the end of the planning phase. Revised cost estimates from planning through design phases are also based on Option C from the Feasibility Study, which is the highest cost option.

The total cost for project planning, environmental, and design phases estimated at \$7.8M, an increase of \$6M. SF Bay Restoration Authority (Measure AA) and California Department of Fish and Wildlife (Proposition 1) grant funding of \$3.87M would offset 65% of that increase. The construction cost estimate of \$1.575M remains unchanged but will be revised upon Board selection of project alternative at conclusion of planning phase, expected in March 2024. In summary, the project cost

has increased by \$6.012M based on Option C, the largest and most complex option with significant increase in scope from the original realignment project and increases are due to changes in planning through design cost estimates. Construction cost estimate was not revised with \$19.5M for Option C but will be later updated with the refined construction cost estimate of the staff recommended alternative at the end of planning phase.

26044004 Bolsa Road Fish Passage Improvements: Schedule extended by 3 years

Expenditures are reduced in FY23 and increased in FY24, FY25, and FY26 to accommodate the 3-year plant establishment period. The overall project schedule was extended by 3 years to capture the remaining tasks such as plant establishment period as well as resolving any outstanding claims and completing any transition work to move the project from the Construction Phase to the Operations and Maintenance Phase. The new close-out end date is in FY26.

26044003 Ogier Ponds: TPC increased by \$2.115M/Schedule extended by 1 year/ Scope change

The project completion schedule was extended by 1 year to account for addition of design phase. The proposed project scope updates include design work which was not previously included in the Project Plan. The project is being considered as a conservation measure in the Anderson Dam Seismic Retrofit Project Environmental Impact Report (ADSRP EIR). As such, the project will deliver sufficient design details to the ADSRP EIR preparers for EIR impact analysis by the end of calendar year 2021. This will require expediting typical project planning and design work procedures to meet the ADSRP EIR schedule. The project site is located on Santa Clara County Parks property. Beginning in 2018, Valley Water has been negotiating a memorandum of Agreement (MOA) with County Parks; however, the MOA is not yet finalized. Ongoing negotiations have delayed the project start by more than two years. To avoid further delay, Valley Water coordinated with County Parks to obtain a right of entry to the project site via the existing Master License Agreement with County Parks. As a result, Valley Water has commenced collecting data for the project which extends the Environmental phase and now includes a Design phase period. Valley Water continues to pursue a final MOA with County Parks. The revised planned project expenditures include additional funds to complete the design phase.

INFORMATION TECHNOLOGY

73274009 Data Consolidation Project: TPC increased by \$39k/Schedule extended by 2 years

The project schedule was extended by 2 years to accommodate additional needs identified by a 2021 audit of the Community Projects Review Unit (CPRU). The audit recommendations must be implemented by June 2023 per auditors, so other tasks within this project will need to be delayed to meet that deadline.

73274001 IT Disaster Recovery Project: TPC increased by \$3k/Schedule extended by 2 years

The project schedule was extended by 2 years due to Covid-19 responses and because Valley Water was not able to complete the Disaster Recovery planning process. This process was pushed into FY 22 for completion. Upon completion of the Disaster Recovery planning process, Information Technology will prioritize approved projects and implement selected projects during FY22 - FY24.

73274008 Software Upgrades and Enhancements Project: TPC decreased by \$1.384M/Scope change

There was no change to the overall project schedule. The scope of this project is being updated to include upgrades and enhancements for additional technology solutions including Munibilling, Information Technology Service Management, Online Payment Processing, Various Cloud Migrations (SMP, Oracle, Maximo, GIS), Workforce Planning, Learning Management System Upgrades, Expansion of Hyland Onbase and proposed expansions to Wells Management and CRM tools. These changes to scope do not increase the project's overall planned expenditures. TPC decrease was due to under expenditure in FY21.

Next Steps

The CIP team has processed the project plan updates and provided the Financial Planning and Revenue Unit (Unit 683) with detailed data. Based on the data provided, Unit 683 will perform financial analysis of the impacts these changes have on the respective funds. The financial analysis will be shared with the CIP Committee, along with the Preliminary CIP for FY 2023-27 during the December 13 committee meeting and with the Board on January 11, 2022.

ATTACHMENTS:

Attachment 1: Capital Project Plan Updates FY2022-26 CIP
Attachment 2: PowerPoint

UNCLASSIFIED MANAGER:

Rechelle Blank, 408-630-2615

Summary of Capital Project Plan Updates from Board Adopted FY 2022-26 CIP

Below is a detailed summary of all project plan updates by type of improvement. Updates to capital project plans are considered to be significant if total project costs (TPC) increase or decrease (inflated) more than \$1 million, project completion is extended beyond one year, or if there are any changes to project scope.

WATER SUPPLY

Storage Facilities:

- 1. 91854001 Almaden Dam Improvements Project:** The uninflated TPC remains the same, however the inflated TPC decreased by \$1.295M. The project completion schedule remains the same, but the environmental phase was updated to accommodate the environmental review process. The project's planned expenditures were revised to reflect the burn rate for FY22 through FY26, to accurately align with updated project schedule. As a result of the shift in phase schedules, the overall TPC decreased due to inflation changes.
- 2. 91864005 Anderson Dam Seismic Retrofit Project:** There was no change to the project schedule. **Changes to project scope include:** **1)** Addition of an in-reservoir access roads approximately four (4) miles long to be constructed to stockpile areas SA-K and SA- L located inside the reservoir; a temporary bridge to cross reopened North Channel, dredging of sediment at the upstream side of the dam to construct the foundation of the dam, operation of the active water treatment system for four (4) years, increased haul and processing of excavated materials to stockpile areas SA-K and SA-L over longer distances during embankment construction, heavy equipment cost over precipitation season, a new 33-inch bypass pipeline and downstream control valves in the low-level outlet works for making cold water releases to Coyote Creek, increase in the size of concrete encasement between low-level outlet tunnel and downstream outlet works and mass concrete backfill under outlet structure required. **2)** Other miscellaneous additions which include a bridge over Coyote Creek, maintenance access to Northern Channel and reopening, electrical work, SCADA work and security work, instrumentation required for four (4) interim dams instead of two (2) interim dams, wick drains and drainage blanket. **3)** Winterization of the Stage 2B/3A interim dams (includes placement of rip-rap on downstream of interim dams, etc.). **4)** New Unlined Spillway, a requirement from the dam safety regulatory agencies, increased spillway invert thickness due to post 60% field investigation findings of most of spillway underlain by weak soil like rock and replacement of spillway crest base. **5)** Increase in the Sloping intake size by approximately 33% in size to accommodate the addition of a separate 33-inch bypass pipeline with three intakes. **6)** Addition of Mechanical fish screens for all intakes in the sloping intake structure (three 54-inch intakes for 78-inch pipeline and three 30-inch intakes for 33-inch bypass pipeline). **7)** Additional costs for NOA related construction air monitoring to cover two additional years of earthwork activities. **8)** Additional Environmental Mitigation related projects. **Changes to project costs include:** **1)** Planning & Environmental Phase costs have increased by \$34.597M due to Environmental Consultant fees, Santa Clara Habitat Agency fees, Legal support fees, Environmental Review, and additional Valley Water labor. **2)** Design Phase & ROW costs have increased by \$47.327M due to Project Management and Design Consultant fees, Division of Safety of Dams fee, Right-of-Way Acquisitions, and additional Valley Water labor. **3)** Construction Phase costs have increased by \$473.807M due to increased Construction Management and Engineering Support During Construction Consultant fees, revised Construction Contract costs,

Environmental Mitigation, and additional Valley Water labor. **4)** Additionally, the encumbered balances have increased by \$10.923M as a result of funds being added to various contracts and consultant agreements (Flatiron West Inc., Horizon Water and Environment, LLC, COWI North America Inc., Black and Veatch Corporation, URS Corporation, Best Source, HDR Engineering, Inc., VNF Solutions, LLC, AECOM Technical Services, Inc.) and Other open Purchase Orders.

3. **91084020 Calero and Guadalupe Dams Seismic Retrofits (Planning only):** TPC increased by \$99K. (TPC uninflated remains the same). Project schedule remains the same however environmental phase extended to complete the EIR and obtain permits from regulatory agencies. Management decided that the EIR for Guadalupe Dam, currently in progress, would only be completed once the FAHCE effort EIR process is completed. The FACHE EIR is expected to be completed by mid-2022. The Guadalupe Dam EIR process will then be pursued to completion. The environmental phase has therefore been extended by one year to 6/30/2024. Planned expenditures have been updated to reflect the updated Project schedule changes.
4. **91894002 Guadalupe Dam Seismic Retrofit – Design & Construction:** The uninflated TPC remains the same, however the inflated TPC decreased by \$1.939M. Project completion schedule remains the same at FY28. Adjustments have been made to the planned expenditures in FY22, FY23, and FY24 based upon the current burn rate projections (reduced FY22, increased FY23 and FY24, net change zero). As a result of the shift in planned expenditures, the overall TPC decreased due to inflation changes.
5. **91234002 Coyote Pumping Plant ASD Replacement:** The Design Phase schedule has been extended to reflect the current status of the design-build entity procurement process and to account for the overlap that occurs between design and construction in a project that is delivered using the progressive design-build delivery method. The overall project duration has not changed. The environmental phase cost has increased due to the extra effort required to coordinate the completion of the National Environmental Policy Act (NEPA) document with the United States Bureau of Reclamation. As the first progressive design-build project for Valley Water, the project team was also responsible for developing templates specific to the progressive design-build project delivery method. The design phase cost has increased to account for the additional funds needed to cover the cost of preparing those documents, including the Request for Qualifications (RFQ), Request for Proposal (RFP), and the design-build agreement, as well as to cover the review of the documents submitted by potential proposers, including the Statement of Qualifications (SOQ) and the proposal, and to cover negotiations for phase 1 of the design-build agreement. Furthermore, additional funds are needed to cover phase 1 of the design-build agreement, currently estimated to be 10% of the latest construction cost estimate. Phase 1 includes review of the preliminary design documents, development of construction cost estimates, design workshops with staff, phase 2 (construction) negotiations, and completion of the final design. This cost increase also accounts for the anticipated high level of effort that will be required to manage the design-build agreement, including close oversight of cost estimates and invoicing, and the staff time that will be required to collaborate with the design-build entity as the design progresses. The original construction cost estimate had not been updated and was developed based on 2013 conditions. The design consultant (Brown & Caldwell) has prepared a detailed Class 4 construction contract cost estimate using the 30% design documents. The estimate was prepared using quantity take-offs, vendor quotes and equipment pricing. The high equipment costs reflect current market conditions, via the incorporation of vendor quotes, which

have further been impacted by recent supply chain disruptions. The Construction Phase cost has increased by \$8.7M to reflect the latest Class 4 construction contract cost estimate.

6. **91234011 Coyote Warehouse:** TPC increased by \$61K. Overall project completion schedule remains the same. However, construction and closeout phases were extended. The Construction Phase of the Project was delayed due to COVID-19 issues including obtaining the certificate of occupancy from the City of Morgan Hill. The Board accepted Stage 1 of the Project in April 2021. Stage 2 of the Project consists of 2 years of vegetation maintenance. Construction costs have increased to account for the additional time for Construction Management staff to continue to inspect the Project and administer the Construction Contract.
7. **91954002 Pacheco Reservoir Expansion Project:** The uninflated TPC remains the same at \$2.205B, however the inflated TPC decreased by \$58.179M. Project completion schedule remains the same at FY32. As a result of project evolution, the current cost for planning, environmental and design phases have been re-evaluated, resulting in changes to phase cost. Factors that contributed to the changes in phase costs are mainly a result of requiring less resource hours to planning and environmental, but additional resource hours to design for project support. FY21 (\$24M), FY22 (\$15.4M), FY23 (\$11.9M), FY24 (\$2.4M) decreased, yet FY25 (\$33.9M) and FY26 (\$19.8M) increased (net change is zero).

Transmission Facilities:

8. **95084002 10-Year Pipeline Rehabilitation Project:** The uninflated TPC remains the same. However, the inflated TPC decreased by \$1.051M. The project completion schedule remains the same at FY27. Environmental Phase costs have increased to fund the PMP programmatic EIR, project staff, environmental staff, and consultant task order. A budgetary estimate (\$800,000) has been provided by Panorama Environmental, Inc., the environmental consultant working on the PMP update. Design Phase, Construction Phase, and Close-Out Phase have decreased because the Design Phase Work Plans for Snell Pipeline and West Pipeline have been completed that include a detailed analysis of the project costs and expenditures. As a result of the shift in phase costs, the overall TPC decreased due to the avoidance of inflation.
9. **92304001 Almaden Valley Pipeline Replacement:** Project schedule remains the same. However, the Construction Phase was extended by 1 year to accommodate new information provided by the Programmatic EIR. Each new fiscal year, the CIP adds the upcoming FY planned expenditures from the original Project Plan. The 21-year total Project Plan was initiated in FY21, and the CIP only provides for a 15-year projection. This CMM update adds FY37 into the 15-year projection. There were also cost increases to planning and environmental phases due to new data that was provided during the Programmatic EIR. Note that budget for years FY38-FY41 is not included in TPC, but is reflected in the funding models via placeholder.
10. **95044001 Distribution Systems Implementation Project:** Through the development of the consultant's scope of services and completing the consultant selection process for the accompanying WTP Implementation Project (Project No. 93044001), staff has a more refined plan for the work and project cost. Since the project schedule will extend to the end of FY25, additional labor cost is needed to support the work. The project schedule extended by two years.

11. **26764001 IRP2 (Infrastructure Reliability Plan) Additional Line Valves Project:** Overall project schedule remains the same. However, the Environmental Phase was extended by four years. The IRP2 Additional Line Valves Project will be constructed with the 10-year Pipeline Inspection and Rehabilitation Projects. The project costs have increased for the following reasons: Environmental Phase costs have increased because CEQA clearance must be coordinated with the 10-Year Pipeline Inspection and Rehabilitation Project. Concurrent implementation of the IRP2 Project and the 10-year Pipeline Inspection and Rehabilitation Project will minimize impacts to local retailers and reduce amount of water released to the environment. Design Phase costs have increased due to the purchase of property from PG&E and UPRR, ongoing coordination needed to acquire easements for construction and long-term maintenance of the facilities proposed as a part of the project, and delays in acquiring encroachment permits from outside agencies who were experiencing staffing constraints as a result of COVID-19 restrictions. The encroachment permit delays required additional staff time to follow-up with outside agencies to procure permits. These encroachment permits were necessary to proceed with preliminary investigations, and subsequently the design of the project. Construction costs have increased based on the engineer's estimate developed during the design phase. The primary reasons are due to larger size vaults to house and access mechanical and electrical equipment, higher material costs, and higher excavation shoring costs than were previously estimated.
12. **92144001 Pacheco/Santa Clara Conduit ROW Acquisition:** TPC increased by \$849K. Project schedule extended by 15 months for construction and closeout phases to be completed in FY24. Costs increased in Environmental phase due to unanticipated delays in finalizing the environmental clearance documents and providing additional biological support for NEPA clearance. Design and ROW Phase cost increase due to additional real estate acquisition prices in Santa Clara County. Construction Phase cost increased due to material cost escalation.
13. **95044002 SCADA Implementation Project:** TPC decreased by \$10K. (TPC uninflated remains the same). Updated Project schedule. No change to the overall project schedule; however, the planning phase has been extended by one year due to the actual timeline for project consultant selections. Also, project phase schedule clarifications reflect that the project includes a Programmatic Environmental Impact Report (PEIR) but does not include any construction work.
14. **94084007 Treated Water Isolation Valves:** TPC decreased by \$181K. (TPC uninflated remains the same). Overall project schedule remains the same. In FY2020, the Pipelines Project Delivery Unit was not granted an unfunded needs request to initiate the Treated Water Isolation Project in FY2021. Resources were unavailable to initiate the Planning Phase until Q1 of FY2022. The Project Expenditure Plan has been revised to reflect the anticipated award of construction contracts per the latest Long-Term Shutdown Schedule. Proposed Construction Award dates are West Pipeline Phase 1 in FY24, West Pipeline Phase 2 in FY25, and Milpitas Pipeline in FY 27. It is anticipated these construction projects will be awarded in the last quarter of their respective fiscal years. Accordingly, the anticipated construction contract expenditures are phased over the years the actual construction activities are expected to occur.

Treatment Facilities:

15. **93294051 RWTP Residuals Management Project:** The Project schedule was extended by three years. The Construction Phase was extended by three years to capture ongoing contract legal

issues. Project costs have increased due to ongoing Contract Legal issues as well as the rental of a mobile centrifuge and on-call maintenance agreements.

16. **93294058 RWTP Residuals Remediation Project:** The overall project schedule remains the same. However, the Design Phase was extended by 2 years to accommodate the mobile centrifuge and on call agreement. The design phase has been extended to 6/30/2023 as the mobile centrifuge and on-call standing order maintenance contract are line items under this phase and must remain open and active until the end of construction. The Construction Phase has been adjusted to end at the end of FY23. The Close-out Phase has been adjusted to align with construction schedule adjustments. The Design Phase cost has been increased to reflect a previously procured on-call standing order maintenance contract. The Construction Phase cost has been increased to account for the higher than estimated construction contract bid. The Construction Phase cost was also increased to include engineering support services during construction and operations involvement to help ensure successful implementation of the project.
17. **93294057 RWTP Reliability Improvement Project:** The overall project schedule has been extended by 1 year to accommodate the updated closeout phase schedule. The Design Phase of the project has been extended to 2023 to accommodate the re-packaging and re-bidding of the remaining phases of the project. The Construction Phase of the project has been extended to reflect the duration required to complete Phases III - VI. Design Phase cost increases are mainly due to the remaining phases requiring repackaging of the plans and specifications to accurately reflect the status of the work for construction contractors to bid on. The increased Construction Phase cost reflects the first detailed review and cost estimate of outstanding improvements remaining from the previous Reliability Improvement Project construction project initiated in 2015.
18. **93044001 WTP Implementation Project:** Increase in Planning and Environmental phases due to additional consultant costs and staff labor costs to manage the consultant through FY25. Project schedule extended by two years due to delays in consultant negotiations and finalizing the agreement with the consultant.

Recycled Water Facilities:

19. **91304001 Purified Water Project (PWP):** Overall project schedule extended by 1 year to FY29 to accommodate the addition of a close out phase. In June 2021, Valley Water completed the Countywide Water Reuse Master Plan (CoRe Plan) which identified feasible opportunities to expand water reuse. The CoRe Plan outlines indirect and direct potable reuse project portfolios in a programmatic approach to consider a wide range of reuse opportunities for flexible implementation. To this end, Valley Water directed the PWP consultant to consider project options that include the possibility of obtaining treated effluent from the City of Palo Alto, in addition to the already planned transfer of effluent from the City of San Jose. The addition of the effluent transfer option from the City of Palo Alto will require additional preliminary investigations and a subsequent change in the project scope. The total project costs have increased by \$106.514M (uninflated) due to the addition of a second option to transfer treated effluent from the City of Palo Alto and in order to obtain better pricing from the P3 entity, additional preliminary work was added to the overall project scope. Schedule was updated to

include a closeout phase to be complete in FY29. The overall project schedule will be extended by one year to accommodate the addition of a closeout phase.

20. **91094009 South County Recycled Water Pipeline (Short Term 1B):** The project schedule was extended by two fiscal years due to NEPA clearance delays and the project advertisement for construction bids was placed on hold until discussions of the governance of the South County Recycled Water Pipeline system progressed. A Technical Working Group between Valley Water, City of Gilroy and City of Morgan Hill was approved by the City Councils and the Valley Water Board of Directors at a Joint Session between the parties on 8/23/2021. The project scope changed due to switch from high density polyethylene pipe (HDPE) to welded steel pipe due to the utility congestions and the constructability of the HDPE. Project cost increases are due to purchase of additional real estate along Phase 1C and for increased construction contract costs, construction management services, construction inspection and engineering support during construction.
21. **91094010 South County Recycled Water Pipeline (Short Term 2):** The project schedule was extended by two years due to the slow-down in the residential development along the recycled water conveyance route; increase in construction phase costs are due to delays associated with unanticipated impacts from the pandemic, which have altered development planning, permitting and construction activities in the city of Gilroy. The TPC increased by \$791K due to inflation resulting from the schedule changes.

FLOOD PROTECTION

Lower Peninsula Watershed:

22. **10394001 Palo Alto Flood Basin Tide Gate Structure Replacement:** The project scope was updated to remove the levee trail surface improvements. The levee trail surface improvements were intended to smoothen, strengthen, and provide an all-weather trail surface for the contractor to use during construction, and would have been installed by Valley Water's Operations & Maintenance (O&M) staff. Additional time needed for regulatory approval for the levee trail surface improvements combined with O&M staff's concerns about completing the planned work within the allotted time window further reduce the benefits of this work. In lieu of the levee trail surface improvements, the construction contractor will be required to perform in-kind repairs to the levee as needed, during the normal project work seasons. The project schedule was updated for the following Phases: Environmental Phase: Valley Water is currently in discussions with multiple regulatory agencies to obtain the necessary regulatory permits to cover the proposed project activities. In addition, Valley Water is coordinating and discussing potential required tribal and archaeological monitoring. More time is needed to acquire all necessary project permits and negotiate reasonable permit conditions. Construction Phase: In the current materials market, the contractor's steel sheet pile procurement lead time is estimated at five and a half months from time of order. Prior to the contractor ordering these materials, the contractor must design and submit their proposed Dewatering System Plan for review and approval from Valley Water, RWQCB, CDFW, and NMFS. We anticipate a minimum of seven and a half months lead time will be needed to ensure a smooth start to onsite construction and prevent delay claims and change orders due to long material procurement lead times. Construction advertisement remains on schedule, but construction start may require adjustment for approval of the Dewatering System Plan and procurement of project materials. Additionally, the proposed

schedule will allow ample time to implement a contractor pre-qualification to help ensure bidding contractors are experienced in similar work conditions.

23. **26244001 Permanente Creek, SF Creek to Foothill Expwy Project:** Construction is complete; however, the project schedule has been extended by three years to include a plant establishment period and closeout activities. There are minor cost increases for Planning, Environmental, Design and right-of-way Phases due to various task code discrepancies. The Construction Phase cost decreased since the soil off-haul and civil construction at Rancho San Antonio was able to be completed earlier and at a lower cost than anticipated. The civil construction of the project was completed as of April 2021. However, staff will continue to work with the Rancho San Antonio contractor during the plant establishment period, which will last until February 2024. There will be some additional closeout tasks after the completion of the plant establishment period, hence the closeout Phase end date is set to June 30, 2024.
24. **10244001 Permanente Creek, SF Bay to Foothill Expwy:** As a sub-project of the Permanente Creek Flood Protection Project, the project number was re-opened under Fund 12 and two fiscal years were added to the project schedule. For FY22, \$125K will be needed for the cost-share agreement with the City of Mountain View for the bleacher retrofit at the McKelvey Park Detention Basin Project, and \$325K for the Channel Improvements Project to design the retrofit and begin the construction of the retrofit in late spring 2022.
25. **26284002 San Francisquito Creek (Construction SF Bay to Middlefield Rd.):** The overall project schedule has been extended by four years. The schedule of this project has been extended to accommodate the USACE Continuing Authorities Program Section 205 (CAP 205) process as well as the updated duration needed for the San Francisquito Creek Joint Powers Authority to apply for and receive state and federal regulatory permits. Based on the current status of the CAP 205 study and permit applications, this project will be advertised in early 2023 for construction in summer of 2023 for the creek widening sites, with Pope-Chaucer Bridge bid and construction in 2024. The end date of the Construction Phase was extended to December 2027 to cover the three-year plant establishment period and the Close-Out Phase was extended into FY 28 due to close-out time needed after the end of the plant establishment period. The total project cost for Phase 2 (Highway 101 to Middlefield Road) will increase by \$6.928M because of the need to extend the project schedule to accommodate the CAP 205 process. The environmental budget has increased to accommodate the additional efforts needed to apply for and receive the state and federal regulatory permits. The planned expenditures for right-of-way has increased to account for the cost escalation of the permanent and temporary construction easements and additional staff hours needed for the associated real estate and rights-of-way mapping tasks. Construction budget has increased to account for the construction cost escalation and the cost of two floodwalls upstream of University Avenue that were not budgeted previously. In addition, close-out budget has increased to cover the three-year plant establishment period.

Guadalupe Watershed:

26. **30154019 Guadalupe River Tasman Drive to I-880:** The overall project schedule has been extended by 2 years due to delay in feasibility alternatives review and extension of the design schedule from two to three years; based upon these changes the start of construction will be moved out by two years to FY25.

Coyote Watershed:

27. **26174041 Berryessa Creek, Calaveras to I-680 Corps:** The overall project schedule has been extended by 3 years to reflect the completion of the Construction and Close-Out Phases for the project from FY21 to FY24. The Construction Phase extension is required to meet the recent San Francisco Bay Regional Water Quality Control Board permitting requirements regarding the Stormwater Management Plan and the Adaptive Management Plan for maintenance purposes. The additional 3 years for closeout are necessary for payment of Valley Water's participation costs for the design and construction work managed by the U.S. Army Corps of Engineers as outlined in the Project Cooperation Agreement for the project
28. **40174004 Lower Berryessa Creek Phase 1:** TPC increased by \$83k. Due to the delay in final completion of overall project construction by one year (from FY22 to FY23), an additional \$77k would be required to have Stillwater Sciences complete the final mitigation and monitoring and any additional planting establishment requirements by FY23. Overall project schedule extended by 1 year to accommodate the mitigation planting installed by the contractor was washed away during the 2017 storm. After the wash out, the contractor was not able to fulfill the specified planting establishment by the conclusion of the civil construction for the Project in FY17. This required the District to hire a qualified subcontractor to finalize the planting establishment, followed by the 5-year permit-required mitigation and monitoring portion of the Project. Hiring the qualified subcontractor, Stillwater Sciences, delayed the start of the 5-year mitigation and monitoring by one year to FY18, thus triggering an additional one-year in the original planned expenditures budget schedule (now FY19 to FY23). The Project Plan Schedule now reflects corrected and assumed dates for Design, Construction and Close-Out items.
29. **40174005 Berryessa Ck, Lower Pen Ck to Calaveras Blvd. Phase 2:** There are no changes to the project schedule. Additional funds are needed in response to higher than anticipated labor costs for in-house construction staff. Recent monthly labor spending rates during construction indicate there is insufficient budget for construction staff labor costs for FY22 and FY23. Staff estimates an additional \$500k is needed for FY22, and \$800k needed for FY23. The total additional project funds requested is \$1.300M for the Construction Phase. Staff labor costs for Environmental, Design and Close-Out Phases were higher in FY21 by \$222k.
30. **40334005 Lower Penitencia Creek (Berryessa to Coyote Creeks):** The overall project schedule is extended by one year. Valley Water issued Notice to Proceed to Gordon N. Ball (Contractor) for construction on June 18, 2021. Construction is scheduled to be completed on December 31, 2022 (FY23). The 3-year plant establishment period will begin after construction and ending on December 31, 2025 (FY26). The total project cost increase is to account for an increase in design cost and construction cost in FY21. Project expenditures for FY21 have been moved to FY22 and through remaining FYs due to construction starting later in summer 2021 instead of summer 2020. Actual bid price and design cost have been included with FY21 expenditures. Plant establishment will now be completed in FY26.

Uvas Llagas Watershed:

31. **26174051 Upper Llagas Creek (LERRDs Reimbursable):** The overall project schedule remains the same. The costs to relocate various existing utilities in conflict with the project has increased due to the discovery of previously unknown underground utilities and cost increases for construction materials. The costs to acquire the last couple of remaining properties required for the project have increased, including an extended full property acquisition that involves a property relocation. The eligible costs associated with this increase will be reimbursed by DWR – State Subventions Program.

Multiple Watersheds:

32. **00044026 South San Francisco Bay Shoreline Project EIA 11:** There is no change to the overall project schedule. The Shoreline Project cost has significantly increased from \$194M to \$545M. USACE has received a fixed \$124.3M in federal funding and now has a federal shortfall of \$91.2M. The total non-federal sponsors share of the increased project cost is \$308.54M, however Valley Water has additionally agreed to be responsible to fund the federal shortfall of \$91.2M. The project budget was originally planned to support the \$194M project cost and there are now not enough funds to support the significant increase in the project cost. However, there are enough funds in place to complete all the project elements within Reaches 1-3. On August 8, 2021, USACE awarded the Reaches 1-3 construction contract to Maloney Odin Joint Venture for \$129.8M and construction is anticipated to commence in November 2021. The non-federal sponsors share of the Reaches 1-3 contract is \$58.4M. As a result of the significant project increase, the Reach 4-5 levee and Artesian Slough Closure structure design is currently on hold for the following reasons; a) to eliminate overlap with Reaches 1-3 construction, such that we don't have contractors competing for fill, which is a key cost driver; b) to provide time for the non-federal sponsors to address financing the local cost share and federal shortfall to complete the project beyond Reaches 1-3 as authorized; and c) to identify other opportunities to complete the project beyond Reaches 1-3 at a lower cost. The Design and Environmental Phase have been extended by 12 months, so that USACE can gather additional field data and conduct hydraulic analysis required for the Union Pacific Railroad Closure Structure and Pedestrian Bridge design.
33. **62084001 Watersheds Asset Rehabilitation Project (WARP):** The uninflated total project cost remains the same, however the inflated total project cost decreased by \$8.849M. The schedule remains the same with only a shift in proposed planned expenditures for future years. The work requests coming from Watersheds Operations and Maintenance Division can vary from year to year, depending on the immediate needs and priorities. For FY23 and FY24, the Operations and Maintenance Engineering Support Unit has requested a number of projects be handled under the Watersheds Asset Rehabilitation Program. Below is the current list and estimated construction costs planned for FY23 and FY24. FY23 (Total construction expenditures needed above current approved project plan): \$3M. 1.) Gabion repair work at San Carlos Street, Guadalupe River \$1M. 2.) Gabion repair work at Blossom Hill Road, Guadalupe River \$1M. 3.) Reinforced Concrete Box repair work at Finch Avenue, Calabazas Creek \$1M. FY24 (Total construction expenditures needed above current approved project plan): \$14M. 4.) Alviso levee repair, Alviso Slough \$2M. 5.) Malone Road retaining wall repair, Guadalupe River \$2M 6.) Levee rehabilitation, Randol Creek \$2M (was initially validated FY23 for unfunded list). 7.) Channel erosion repair, Regnart Creek \$5M (Union Pacific Trail to Bubba Road). 8.) U-frame wall repair, Permanente Creek \$3M (Mountain View Avenue to Park Avenue). As outlined, \$17M in additional funding will be needed

in FY23 and FY24 to account for increased construction costs. To make up for this difference, expenditures planned from FY31 through FY34 have been reduced by \$16,382,000 and redistributed to FY23 and FY24. As a result of the shift in planned expenditures, the overall total project cost decreased due to inflation changes.

WATER RESOURCES STEWARDSHIP

Lower Peninsula Watershed:

34. **26164001 Hale Creek Enhancement Pilot Study:** TPC increased by \$115k. (TPC uninflated remains the same). Overall project schedule extended by 1 year to cover the 3-year plant establishment period. The Hale Creek Enhancement Pilot project construction has been postponed by a year, from summer of 2021 to summer of 2022. The project construction was deferred to allow additional time for coordination with property owners to obtain permanent easement and temporary construction easements. In FY 21, the Board approved a schedule adjustment, extending the project completion by a year to FY 23. The current proposed project schedule extends the construction phase into December 2025 to cover the three-year plant establishment period. The close-out phase was extended into FY26 due to close-out time needed after the end of the plant establishment period.

Multiple Watersheds:

35. **20444001 Salt Ponds Restoration Project:** The overall project schedule has been extended by three years. The recommended project will be determined at the conclusion of planning phase. Staff presented the Feasibility Study to the Board during 4/27 meeting and received approval to proceed to planning phase. During planning phase, staff will explore a robust set of alternatives, including an integrated project alternative (Feasibility Study Option C) which combines the Calabazas/San Tomas creek realignment project with SBSRP planned tidal marsh restoration project. Although the staff-recommended alternative has yet to be determined, to be conservative the budget and schedule presented herein is largely based on Option C which has the largest scope of the options that were identified in the Feasibility Study. Construction costs remained unchanged but will be revised once staff recommended alternative is presented to the Board at the end of the planning phase. Revised cost estimates from planning through design phases are also based on Option C from the Feasibility Study, which is the highest cost option.

The total cost for project planning, environmental, and design phases estimated at \$7.8M, an increase of \$6M. SF Bay Restoration Authority (Measure AA) and California Department of Fish and Wildlife (Proposition 1) grant funding of \$3.87M would offset 65% of that increase. The construction cost estimate of \$1.575M remains unchanged but will be revised upon Board selection of project alternative at conclusion of planning phase, expected in March 2024. In summary, the project cost has increased by \$6.012M based on Option C, the largest and most complex option with significant increase in scope from the original realignment project and increases are due to changes in planning through design cost estimates. Construction cost estimate was not revised with \$19.5M for Option C but will be later updated with the refined construction cost estimate of the staff recommended alternative at the end of planning phase.

36. **26044004 Bolsa Road Fish Passage Improvements:** Expenditures are reduced in FY23 and increased in FY24, FY25, and FY26 to accommodate the 3-year plant establishment period. The

overall project schedule was extended by 3 years to capture the remaining tasks such as plant establishment period as well as resolving any outstanding claims and completing any transition work to move the project from the Construction Phase to the Operations and Maintenance Phase. The new close-out end date is in FY26.

37. **26044003 Ogier Ponds Separation from Coyote Creek Planning & Design Project:** The project completion schedule was extended by 1 year to account for addition of design phase. The proposed project scope updates include design work which was not previously included in the Project Plan. The project is being considered as a conservation measure in the Anderson Dam Seismic Retrofit Project Environmental Impact Report (ADSRP EIR). As such, the project will deliver sufficient design details to the ADSRP EIR preparers for EIR impact analysis by the end of calendar year 2021. This will require expediting typical project planning and design work procedures to meet the ADSRP EIR schedule. The project site is located on Santa Clara County Parks property. Beginning in 2018, Valley Water has been negotiating a memorandum of Agreement (MOA) with County Parks; however, the MOA is not yet finalized. Ongoing negotiations have delayed the project start by more than two years. To avoid further delay, Valley Water coordinated with County Parks to obtain a right of entry to the project site via the existing Master License Agreement with County Parks. As a result, Valley Water has commenced collecting data for the project which extends the Environmental phase and now includes a Design phase period. Valley Water continues to pursue a final MOA with County Parks. The revised planned project expenditures include additional funds to complete the design phase.

INFORMATION TECHNOLOGY

38. **73274009 Data Consolidation Project:** The project schedule was extended by 2 years to accommodate additional needs identified by a 2021 audit of the Community Projects Review Unit (CPRU). The audit recommendations must be implemented by June 2023 per auditors, so other tasks within this project will need to be delayed to meet that deadline.
39. **73274001 IT Disaster Recovery Project:** The project schedule was extended by 2 years due to Covid-19 responses and because Valley Water was not able to complete the Disaster Recovery planning process. This process was pushed into FY 22 for completion. Upon completion of the Disaster Recovery planning process, Information Technology will prioritize approved projects and implement selected projects during FY22 – FY24.
40. **73274008 Software Upgrades and Enhancements Project:** There was no change to the overall project schedule. The scope of this project is being updated to include upgrades and enhancements for additional technology solutions including Munibilling, Information Technology Service Management, Online Payment Processing, Various Cloud Migrations (SMP, Oracle, Maximo, GIS), Workforce Planning, Learning Management System Upgrades, Expansion of Hyland Onbase and proposed expansions to Wells Management and CRM tools. These changes to scope do not increase the project's overall planned expenditures. TPC decrease was due to under expenditure in FY21.

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Capital Improvement Program (CIP) Significant Project Plan Updates from Board Adopted FY 2022-26 CIP

Agenda

1. Overview
2. Fund Impacts
3. Significant Project Plan Updates by Type of Improvement
 1. Water Supply
 2. Flood Protection
 3. Water Resources Stewardship
 4. Information Technology
4. Next Steps

Overview

Significant Project Plan Updates are:

- **Total Project Cost (TPC) Increases or Decreases > \$1M**
- **Project Completion Schedule Changes > 1 year**
- **Changes to Project Scope**

Fund Impacts

The TPC increases or decreases (**with inflation**) detailed below and in Attachment 1 by fund are as follows:

- Water Utility Enterprise Fund (**Fund 61**) **increased** by **\$785.968M**;
- Watersheds Stream Stewardship Fund (**Fund 12**) **decreased** by **\$27.223M**;
- Safe, Clean Water and Natural Flood Protection Program Fund (**Fund 26**) **increased** by **\$14.881M**; and
- Information Technology Fund (**Fund 73**) **decreased** by **\$1.342M**.

Water Supply

Storage Facilities:

91854001 Almaden Dam Improvements Project: (TPC decreased by \$1.295M)

91864005 Anderson Dam Seismic Retrofit Project: (TPC increased by \$588.746M/Scope change)

91234002 Coyote Pumping Plant ASD Replacement: (TPC increased by \$11.773M)

91894002 Guadalupe Dam Seismic Retrofit – Design & Construction: (TPC decreased by \$1.939M)

91954002 Pacheco Reservoir Expansion Project: (TPC decreased by \$58.179M)

91214010 Small Capital Improvements, San Felipe Reach 1: (TPC decreased by \$3.973M)

Water Supply

Transmission Facilities:

95084002 10-Year Pipeline Rehabilitation Project: (TPC decreased by \$1.051M)

92304001 Almaden Valley Pipeline Replacement: (TPC increased by \$20.572M)

95044001 Distribution Systems Implementation Project: (TPC increased by \$1.048M/Schedule extended by 2 years)

26764001 IRP2 Additional Line Valves Project: (TPC increased by \$4.540M)

Water Supply

Treatment Facilities:

93294051 RWTP Residuals Management: (TPC increased by \$1.916M/Schedule extended by 3 years)

93294058 RWTP Residuals Remediation: (TPC increased by \$9.162M)

93294057 RWTP Reliability Improvement Project: (TPC increased by \$101.801M/Schedule extended by 1 year)

93764004 Small Capital Improvements, Water Treatment: (TPC decreased by \$2.550M)

93044001 WTP Implementation Project: (TPC increased by \$1.319M/Schedule extended by 2 years)

Water Supply

Recycled Water Facilities:

91304001 Purified Water Project (PWP): (TPC increased by \$113.184M/Schedule extended by 1 year)

91094009 South County Recycled Water -Short Term 1B: (TPC increased by \$5.073M/ Schedule extended by 2 years)

91094010 South County Recycled Water Pipeline - Short Term 2: (Schedule extended by 2 years)

Flood Protection

Lower Peninsula Watershed:

10394001 Palo Alto Flood Basin Tide Gate Structure Replacement: (TPC increased by \$1.041M/Scope change)

26244001 Permanente Creek, SF Creek to Foothill Expwy Project: (TPC decreased by \$3.700M/Schedule extended by 3 years)

10244001 Permanente Creek, SF Bay to Foothill Expwy: (TPC increased by \$787K/Schedule extended by 2 years)

26284002 San Francisquito Creek - Construction SF Bay to Middlefield Rd: (TPC increased by \$8.068M/Schedule extended by 4 years)

Flood Protection

Guadalupe Watershed:

30154019 Guadalupe River Tasman Drive to I-880: (TPC increased by \$3.262M/Schedule extended by 2 years)

Coyote Watershed:

26174041 Berryessa Creek, Calaveras to I-680 Corps: (TPC increased by \$768K/Schedule extended by 3 years)

40174005 Berryessa Ck, Lower Pen Ck to Calaveras Blvd. Phase 2: (TPC increased by \$1.501M)

40334005 Lower Penitencia Creek - Berryessa to Coyote Creeks: (TPC increased by \$6.892M/Schedule extended by 1 year)

Flood Protection

Uvas Llagas Watershed:

26174051 Upper Llagas Creek -LERRDs Reimbursable: (TPC increased by \$3.045M)

Multiple Watersheds:

00044026 SF Bay Shoreline: (TPC decreased by \$38.766M)

62084001 Watersheds Asset Rehabilitation Program: (TPC decreased by \$8.849M)

Water Resources Stewardship

Multiple Watersheds:

20444001 Salt Ponds Restoration Project: (TPC increased by \$6.826M/Schedule extended by 3 years)

26044004 Bolsa Road Fish Passage Improvements: (Schedule extended by 3 years)

26044003 Ogier Ponds: (TPC increased by \$2.115M/Schedule extended by 1 year/ Scope change)

Information Technology

73274001 IT Disaster Recovery Project: (TPC increased by \$3K/Schedule extended by 2 years)

73274008 Software Upgrades and Enhancements Project: (TPC decreased by \$1.384M/Scope change)

73274009 Data Consolidation Project: (TPC increased by \$39K/Schedule extended by 2 years)

Next Steps

The CIP team has processed the project plan updates and provided the Financial Planning and Revenue Unit (Unit 683) with detailed data. Based on the data provided, Unit 683 will perform financial analysis of the impacts these changes have on the respective funds. Listed below are the next steps in the CIP Annual Process:

- Receive CIP Committee feedback on significant project plan updates **11/15**;
- Unit 683 to provide financial analysis on funds **11/17**;
- CIP Evaluation Team to review project plan updates, initially validated/unfunded project list, fund analysis, and all feedback received to prepare FY 2023-27 Draft Preliminary CIP **11/18**;
- CIP Committee to review FY 2023-27 Draft Preliminary CIP and fund analysis on **12/13**; and
- Board to review FY 2023-27 Preliminary CIP and fund analysis on **1/13***.



Valley Water

Clean Water • Healthy Environment • Flood Protection

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Santa Clara Valley Water District

File No.: 21-0842

Agenda Date: 11/15/2021

Item No.: 4.6.

COMMITTEE AGENDA MEMORANDUM

Capital Improvement Program Committee

SUBJECT:

Review 2021 Capital Improvement Committee Work Plan.

RECOMMENDATION:

Review the 2021 Capital Improvement Program Committee Work Plan and make adjustments as necessary.

SUMMARY:

Work Plans are created and implemented by all Board Committees to increase Committee efficiency, provide increased public notice of intended Committee discussions, and enable improved follow-up by staff. Work Plans are dynamic documents managed by Committee Chairs and are subject to change. Committee Work Plans also serve to assist to prepare an Annual Committee Accomplishments Report.

Discussion of topics as stated in the Plan have been described based on information from the following sources:

- Items referred to the Committee by the Board;
- Items requested by the Committee to be brought back by staff;
- Items scheduled for presentation to the full Board of Directors; and
- Items identified by staff.

The CIP Work Plan (Attachment 1) is presented for the Committee's review to determine topics for discussion in 2021.

Regular monthly meetings are scheduled to occur at 11:00 a.m., on the third Monday of each month or at the call of the Committee Chair.

ATTACHMENTS:

Attachment 1: 2021 CIP Committee Work Plan

UNCLASSIFIED MANAGER:

Michele King, 408-630-2711

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CIP Committee 2021 Workplan

	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
Capital Project Monitoring												
Feasibility/Planning		X		X			X			X		
Design/Permitting		X			X			X			X	
Construction			X				X		X			X
Consultant Agreement Compliance Process			X									X
Update on RWTP Residuals Remediation Project			X									
Anderson Dam Tunnel Project Contingency Fund Delegated Authority					X							
Update on Coyote Pumping Plant Design/Build Project									X			
Planning Updates												
• Upper Penitencia Creek Flood Protection Project							X					
• Stevens Creek Fish Ladder										X		
CIP Implementation												
Review Project Delivery Process for Capital Projects												
• O&M Costs (Design) and Readiness Assessment (Construction)			X									
Safe, Clean Water 5-Year Implementation Plan (Adjustments and Financial				X								
CIP Development												
CIP Planning Process												
• Annual CIP Process and Integrated Financial Planning Schedule and Review of Initially Validated and unfunded Projects										X		
• Review Significant Project Plan Updates											X	
- Cost increase for the Anderson Dam Seismic Retrofit Project											X	
Preliminary CIP Review	X											X
Standing Items												
Anderson Dam Tunnel Project Contingency and Change Order Monitoring	N/A	N/A	N/A	N/A	N/A	N/A	N/A	X	X	X	X	X
Upcoming Consultant Agreement Amendments	N/A	X	X	X	X	X	X	X	X	X	X	X
Workplan	N/A	X	X	X	X	X	X	X	X	X	X	X
Minutes	N/A	X	X	X	X	X	X	X	X	X	X	X

11/10/2021

Attachment 1 of 1

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