



DATE: November 25, 2025

TO: Commissioner Joshua Arce, President
 Commissioner Stephen E. Leveroni, Vice President
 Commissioner Avni Jamdar
 Commissioner Kate H. Stacy
 Commissioner Meghan Thurlow

FROM: Dennis J. Herrera, General Manager *DJH*

RE: Hetch Hetchy Capital Improvement Program Quarterly Report
 Quarterly Report (1st Quarter / FY 2025-2026)

Enclosed please find the Hetch Hetchy Capital Improvement Program (HCIP) Quarterly Report for the 1st Quarter (Q1) of Fiscal Year (FY) 2025-2026. The primary intent of the report is to provide the Commission, stakeholders, and the public with a status summary of the HCIP based on data for the period of July 1, 2025 to September 30, 2025.

Attachment

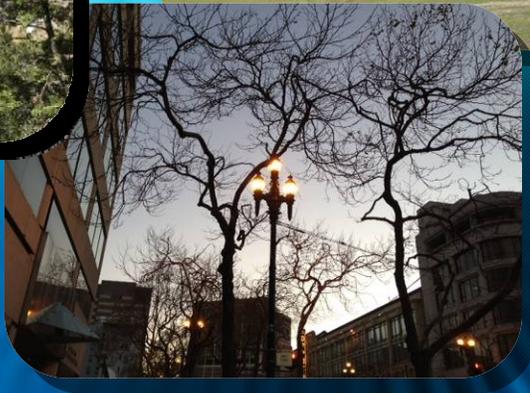
- Daniel Lurie**
Mayor
- Joshua Arce**
President
- Stephen E. Leveroni**
Vice President
- Avni Jamdar**
Commissioner
- Kate H. Stacy**
Commissioner
- Meghan Thurlow**
Commissioner
- Dennis J. Herrera**
General Manager



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San Francisco
Water Power Sewer
Services of the San Francisco Public Utilities Commission



QUARTERLY REPORT

Hetch Hetchy Capital Improvement Program
July 2025 – September 2025

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EXECUTIVE SUMMARY

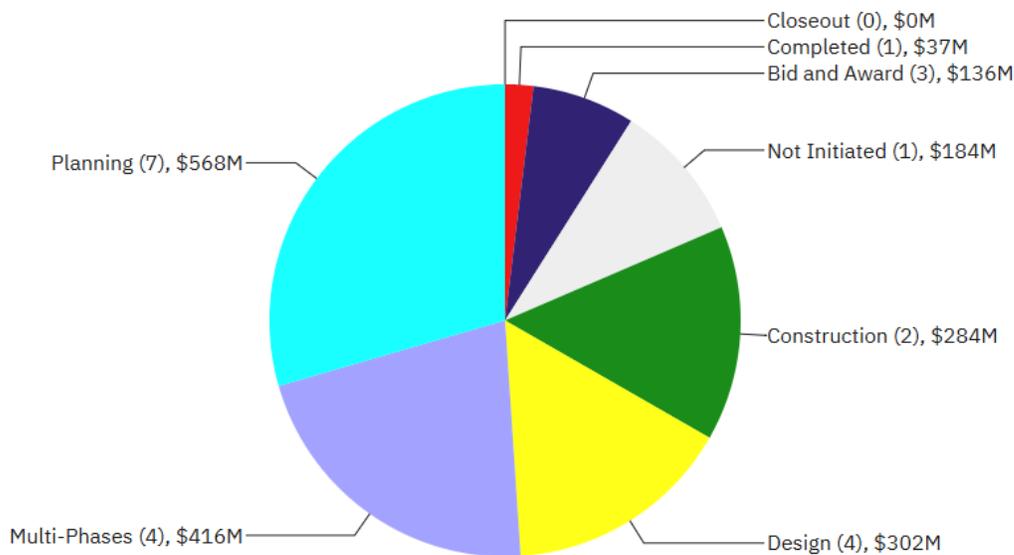
This quarterly report provides a summary update on the Hetch Hetchy Capital Improvement Program (HCIP) that is part of the larger Hetch Hetchy Water Capital Improvement Program. The primary intent of the report is to provide the Commission, stakeholders, and the public with a status summary of the HCIP based on data for the period of July 1, 2025 to September 30, 2025.

This quarterly report includes all approved HCIP projects in the Hetch Hetchy Water Capital Improvement Program according to the 10-Year Capital Plan for FY2024-25 to FY2033-34, presented to and adopted by the Commission on February 13, 2024 (2024 HCIP). There are twenty-two (22) projects in the 2024 HCIP together with three (3) project development (PD) accounts for program-level expenditures for each of the Water, Power, and Joint Programs. As part of the recent Update to the 10-Year Capital Plan for FY2025-26 to FY2034-35 that was adopted by the Commission during the quarter on February 11, 2025, none of the 22 HCIP project budgets or schedules were changed from the 2024 HCIP.

Program Current Status:

As of the end of the reporting period, the status of the 22 HCIP projects (excluding for these purposes the 3 PD accounts) is as follows: one (1) project is not yet initiated; fourteen (14) projects are in planning, design, and bid & award; two (2) projects are in construction; four (4) projects have subprojects in multiple phases including construction; and one (1) project was completed. During this quarter, the following major project milestones were achieved:

- Construction final completion was achieved for SJPL Valve and Safe Entry Improvement Phase 3 – Tesla Surge Tower (HH-1009).
- Construction final completion was achieved for O’Shaughnessy Dam Outlet Works Phase 1 Subproject A (Bulkheads, DB-135) and Subproject C (Instream Flow Release Valve Replacement, HH-1011).



Approved Budget for Projects in Each Phase

The following tables provide a high-level summary of the cost and schedule status for this program (including the 3 PD accounts).

Table A shows program expenditures to date; \$21.85 million was spent during the quarter. Table A also shows the Current Approved Budget and Current Forecast Cost of \$2,016.81 million and \$2,002.79 million, respectively. Reasons for the cost variances are included in Section 7 of this report.

Table A. Program Cost Summary

Program	Expenditures To Date (\$ Million) (A)	Current Approved Budget (\$ Million) (B)	Q1/FY25-26 Forecast Costs (\$ Million) (C)	Cost Variance (\$ Million) (D = B - C)	Cost Variance Over Reporting Period * (\$ Million) (E)
Program Total	\$481.08	\$2,016.81	\$2,002.79	\$14.02	(\$4.43)

* Negative number is reflecting cost increases since last quarter, and positive number is reflecting cost reduction since last quarter.

Table B shows the Approved and Forecast Completion Dates.

Table B. Current Approved vs. Current Forecast Schedule Dates

Program	Current Approved Project Start	Actual Start	Current Approved Completion	Current Forecast Completion	Schedule Variance (Months)
Overall HCIP Program	10/03/11	10/03/11 A*	12/31/41	12/31/41	-

* "A" is used after a date to represents an actual date as opposed to a forecast or approved date.

Program Key Updates:

The key updates for the HCIP include:

- For the SJPL Valve and Safe Entry Improvements project, under Phase 1A (HH-1005) the project team is working with the contractor to resolve challenges with the knife gate valves in order to close out the contract. Phase 2A (HH-1012): The contractor is restoring the equipment that was flooded at the Roselle Valve House during the previous quarter in preparation for upcoming Hetch Hetchy system shutdown. Phases 2B/2C (HH-1016): The contractor initiated pre-construction activities. During potholing and subsequent inspections, differing site conditions were discovered, including tight space for placement of the new valves and potentially hazardous material in the pipeline coating. Phase 3 (HH-1009): The contractor achieved substantial completion.

- For the Moccasin Powerhouse Bypass Upgrades project, project team is working on developing design alternatives to address hydraulic concerns; contract advertisement has been delayed to improve the design.
- For the Moccasin Powerhouse and Generator Step-Up (GSU) Rehabilitation project, the contractor for Subproject B (contract DB-121R2) worked with SFPUC to determine a solution to Unit 1 pre-existing shaft alignment problems; final completion will be delayed to address the alignment issue. For Subproject C, the 95% design package was rejected due to quality concerns and a resubmittal is expected next quarter.
- For Transmission Line Clearance Mitigation project, the Progressive Design-Build contract DB-139 received two bids in response to the solicitation; however, after evaluation both bids were rejected. The project team is currently evaluating the impacts for rebidding on budget and schedule.
- For the Warnerville Substation Rehabilitation project, on September 9, 2025, SFPUC Commission approved award of the construction contract. Submission of Bond, Insurance and other contractual requirements are underway. Notice to Proceed (NTP) is expected to be issued next quarter.
- For the Moccasin Penstock Rehabilitation, additional pipeline and tunnel alignments were added to the alternatives analysis due to recent Right of Way developments that allowed these favorable alignments to be considered.
- For the Moccasin Engineering & Records Building project, the Design Development package review completed. Project team is working on the 65% Construction Document package.
- For the Moccasin Warehouse Building project, the HHWP confirmed the location of the new warehouse. The design team completed the conceptual document package.
- For the O'Shaughnessy Dam Outlet Works Phase 1 Subproject A (contract DB-135 for bulkheads rehabilitation), the project team worked on reconciling costs and completing documentation required for contract closeout. For Subproject B (contract HH-1015 Drainage & Miscellaneous Dam Improvements), the contractor completed cleaning approximately three-quarters of the internal drains within the operating chambers. Fabrication of the new steel platforms is in progress. For Subproject C (contract HH-1011 The project team reconciled costs and is finalizing the contract documents to complete closeout. For Subproject D (Slide Gates) and Subproject E (Drum Gates), the draft Final Needs Assessment and Alternative Analysis Report are being reviewed by internal stakeholders.
- For the Moccasin Dam & Reservoir Long-Term Improvements project, the 35% design was completed. The current design consultant has switched roles to be the program management consultant, and in this oversight the role cannot complete the design. The Engineering Management Bureau will seek the Commission approval in October to assign the engineering support services to another qualified consultant team to avoid conflict of interest.
- For the Cherry Dam Spillway - Short Term Improvements project, the project team has received 100% design package for review and has started working on the bidding documents, aiming to advertise the construction contract in the next quarter.
- For the Eleanor Dam Rehabilitation and the Interim Bridge Repair subproject, the work for Interim Bridge Repair will be combined in the same construction contract with Cherry Dam Spillway Short Term Improvements. The project team is reviewing the 100% design and working on the bidding documents, aiming to advertise the construction contract in the next

quarter. For Eleanor Dam and Bridge Long-Term Rehabilitation subproject, the project team continued to work with Operations department to define the project objectives and scope.

- For the Early Intake Dam – The project remains on hold. The project team concluded current activities by issuing a Project Summary Report documenting the project history, key activities, and major deliverables to support future efforts when the project restarts.
- For the Moccasin Switchyard project, the Needs Assessment Report (NAR) submission and presentation to stakeholders has been completed. NAR has been reviewed and comments submitted back to the consultant.
- For the Mountain Tunnel Improvements Project Subproject A (HH-1000R) contract, the construction of the Flow Control Facility building walls was partially completed along with finishing the construction of the crane and vehicle pads. Fabrication of the two remaining double-disc knife gate valves and the two sleeve valves continued off site along with fabrication of the electrical panels. Work continued at the Priest Adit constructing the concrete final lining, which is about 50% complete. At the Early Intake Adit, the steel bulkhead door and frame has been hung and waiting to receive the concrete plug to encase the bulkhead. Subproject B (HH-1013) Moccasin Water System Filtration Plant: The raw water vaults, sewer line and manholes were constructed this quarter. The floor beams and steel columns are being modified due to the grade beam not being constructed according to the contract.
- For the Moccasin Wastewater Treatment Plant Replacement (contract HH-1010) project, construction progressed this quarter with structural repairs to address concrete consolidation defects at the Sequential Batch Reactor (SBR), along with internal wall coating, duct bank installation, and conduit placement for the new transformer pad.

Quarterly Report

Hetch Hetchy Capital Improvement Program

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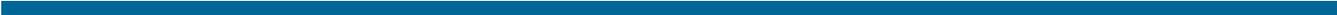
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**HETCH HETCHY WATER AND POWER (HHWP)–
WATER DIVISION CAPITAL IMPROVEMENT PROGRAMS**



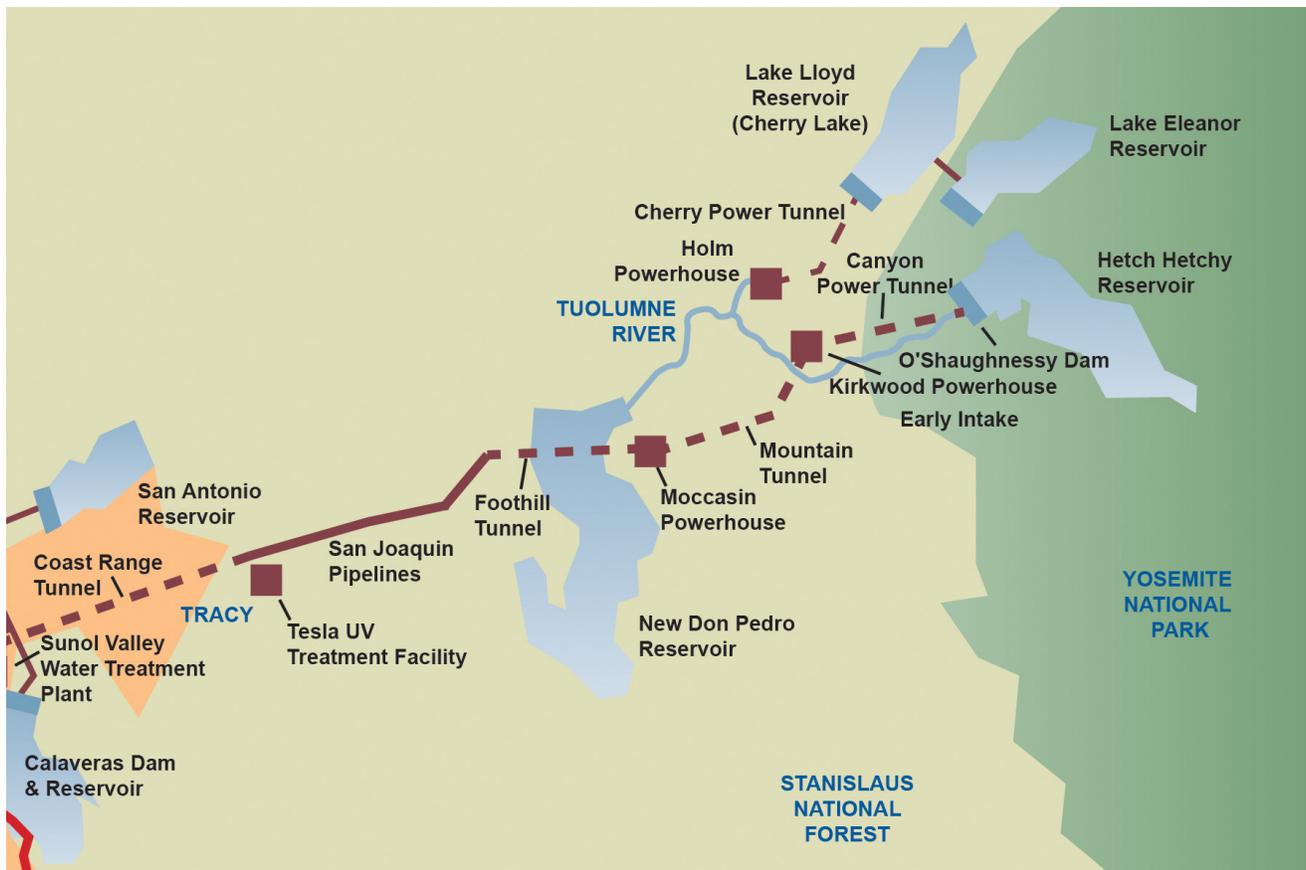
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INTRODUCTION

The Hetch Hetchy Water and Power (HHWP) Water Division is responsible for operating, managing, and maintaining the HHWP system and facilities. This includes water facilities that are part of the Regional Water System from Hetch Hetchy Reservoir, located in Yosemite National Park, to Alameda East Portal, located in Sunol Valley and power facilities located from Early Intake to Newark. The HHWP Water Division operates, manages, and maintains three impoundment reservoirs, three regulating reservoirs, four powerhouses, one switchyard, three substations, 170 miles of pipeline and tunnels, almost 50 miles of paved road, over 160 miles of transmission lines, watershed land, and right-of-way property. HHWP Water Division provides 85 percent of the San Francisco Public Utilities Commission (SFPUC) water supply for 2.7 million residential, commercial, and industrial customers in Alameda, Santa Clara, San Mateo, and San Francisco counties. On average, HHWP Water Division generates about 1,650 gigawatt hours (GWH) of clean hydro-generated power annually. A majority of HHWP staff is based in Moccasin, CA, which is 140 miles east of San Francisco.

The HHWP Water Division’s capital improvement programs are divided into two programs: Hetch Hetchy Capital Improvement Program (HCIP) and Renewal and Replacement (R&R). This report provides a quarterly status update on the HCIP, a group of capital improvement projects that are greater than \$5M in value and have been approved by the Commission as part of the SFPUC’s 10-Year Capital Improvement Program. The status of the Hetch Hetchy R&R projects is reported annually in the Annual Report on Water Enterprise-Managed Capital Improvement Projects.

The map below shows the location of the assets and facilities associated with HHWP.



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HETCH HETCHY CAPITAL IMPROVEMENT PROGRAM (HCIP)

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1. PROGRAM DESCRIPTION

The Hetch Hetchy Capital Improvement Program (HCIP) is a group of multi-year capital projects to upgrade existing, aging infrastructure so that it will meet the challenges of today and the future. These projects will deliver improvements that enhance the SFPUC's ability to provide reliable, affordable, high-quality water to its 2.7 million customers in an environmentally sustainable manner. The goals are

- 1) to provide capital improvements needed to cost-effectively ensure that water quality, seismic reliability, delivery reliability, and water supply objectives established for the Regional Water System facilities managed by HHWP are met, and 2) to optimize the benefits of HHWP power facilities operations. Ongoing development of the HCIP will sustain the Regional Water System's status as an unfiltered water source and a gravity-driven system.

The scope of HCIP is divided into three major project types: Water, Power, and Joint. The Water sub-program includes only asset improvements benefiting the SFPUC's water customers. The Power sub-program includes only asset improvements used to generate environmentally friendly hydroelectric energy. The Joint sub-program includes projects for assets that are used for both water delivery and power generation. In addition, projects in each sub-program of the HCIP have been further organized by asset type consisting of the following:

Water Infrastructure

- Water Conveyance – projects to enhance the reliability of water delivery through pipelines and penstocks, allowing for both delivery of water to SFPUC customers and delivery of water to powerhouses for power generation.

Power Infrastructure

- Powerhouse – projects to improve facilities at the Holm, Kirkwood, and Moccasin powerhouses.
- Switchyard & Substations – projects to meet operational objectives for power, including reliability, regulatory compliance, and sustainability.
- Transmission Lines – projects to expand or improve power assets for electricity transmission.

Joint (Water and Power) Infrastructure

- Dams & Reservoirs – projects to improve assets used for storage and delivery of water to SFPUC customers, as well as for water storage for power generation.
- Mountain Tunnel – projects to address deficiencies with the Mountain Tunnel, a critical, non-redundant link in the Hetch Hetchy and Regional Water System that conveys water from Kirkwood Powerhouse to Priest Reservoir.
- Roads & Bridges – projects to replace or improve bridges that are utilized to access HHWP assets.
- Tunnels – projects to repair tunnels along the HHWP system (other than Mountain Tunnel).
- Utilities – projects to expand or improve utilities for asset and work locations such as water and wastewater treatment facilities.
- Buildings – projects to provide safe and code compliant workspaces.

2. PROGRAM STATUS

This Quarterly Report presents the progress made on HCIP between July 1, 2025 and September 30, 2025. This document serves as the first (1st) Quarterly Report in Fiscal Year 2025-2026 (FY26) published for the HCIP.

This quarterly report includes all HCIP projects in the Hetch Hetchy Water Capital Improvement Program according to the 10-Year Capital Plan for FY2024-25 to FY2033-34 (FY25-34 CIP), presented to and adopted by the Commission on February 13, 2024, under Resolution No. 24-0032 (2024 HCIP). The 2024 HCIP is a subset of the Hetch Hetchy Water 10-Year CIP for FY2025-2034 and includes individual projects over \$5 million that were then currently active or intended to be active by July 1, 2024 at the time proposed to the Commission on February 13, 2024. This baseline for comparison will remain the same until adoption of a new 10-Year CIP; the baseline will be updated with the changes in the adopted CIP at the start of the new fiscal year following adoption. As part of the recent update to the 10-Year Capital Plan for FY2025-26 to FY2034-35 that was adopted by the Commission during the quarter on February 11, 2025, none of the 22 HCIP project budgets or schedules were changed from the 2024 HCIP.

There are twenty-two (22) projects in the 2024 HCIP together with three (3) project development (PD) accounts for program-level expenditures for each of the Water, Power, and Joint Programs. A description of each project and of each project development account is provided in the Appendix A of this report.

The accrued PD expenditures are included in the Cost Summary in Table 3 in order to give an accurate report of the overall HCIP cost performance.

Figure 2.1 shows the total Approved Budget for all twenty-two (22) projects in each phase of the program as of September 30, 2025 (PD accounts do not have phases and are not included in Figure 2.1). The number of projects currently in each phase is shown in parentheses.

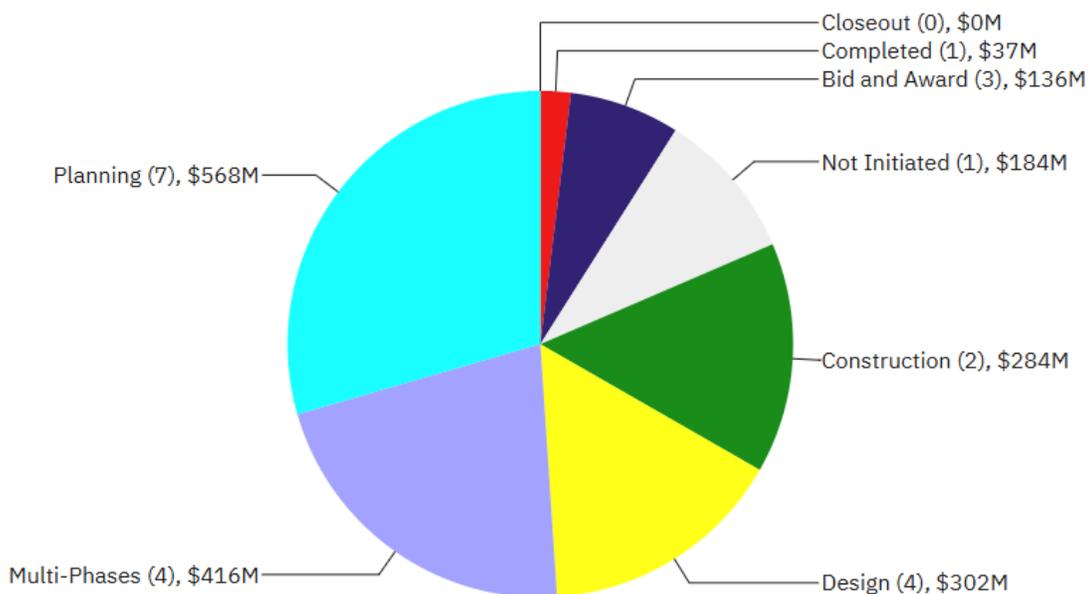


Figure 2.1 Approved Budget for Projects in Each Phase

Figure 2.2 shows the total number of projects in the following stages as of September 30, 2025: Pre-construction, Construction, and Post-construction.

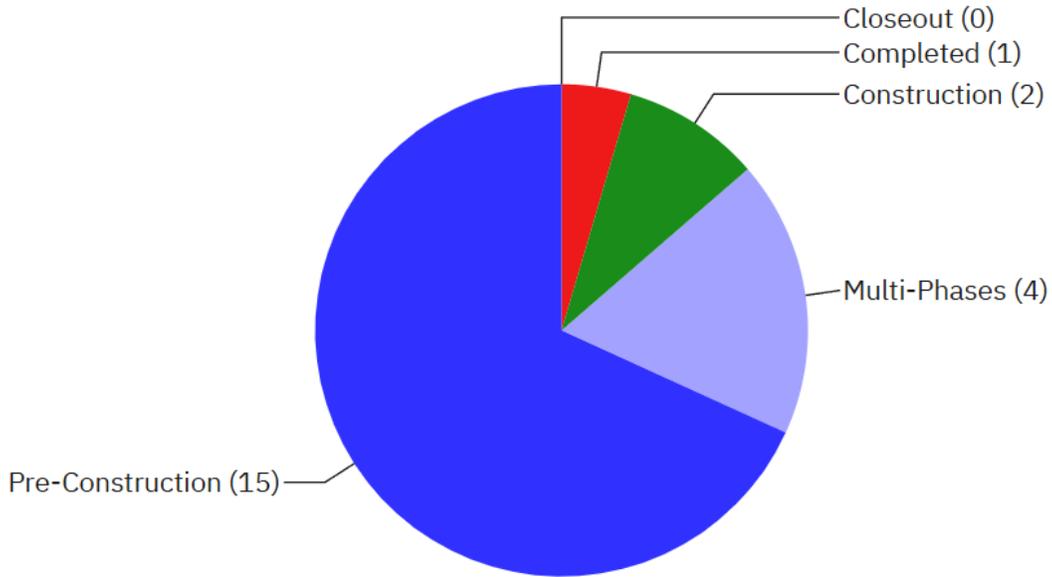


Figure 2.2 Number of Projects in Pre-construction, Construction, and Post-construction

Figure 2.3 summarizes the environmental review status of the HCIP projects as of September 30, 2025. Environmental review is performed for projects under California Environmental Quality Act (CEQA).

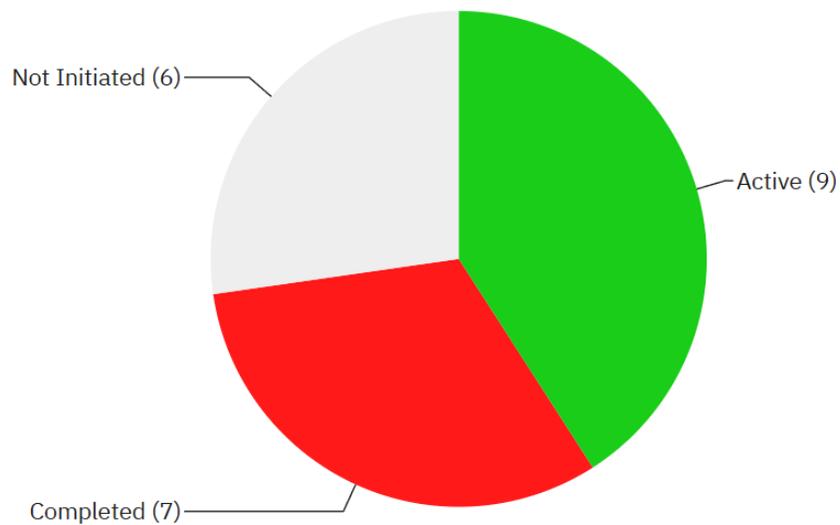


Figure 2.3 Program Environmental Review

3. PROGRAM COST SUMMARY

Table 3 provides an overall cost summary of the 22 HCIP projects and 3 HCIP PD accounts at the end of the quarter. It shows the Expenditures to Date, Current Approved Budget, Current Forecast Cost, the Cost Variance between the Approved and Forecast Costs, and the Cost Variance Over the Reporting Period (difference between cost forecasts reported in Q4/FY2024-25 and in Q1/FY2025-26). The Current Approved Budget and Forecast Cost for the HCIP are \$2,016.81 million and \$2,002.79 million, respectively.

The overall 2024 HCIP positive Cost Variance of \$14.02 million in Table 3 can be attributed to the following projects and their variances are provided below: the reasons for the project variances are reported in section 7:

- The Moccasin Powerhouse and GSU Rehabilitation \$25.94M cost increase variance is a continuation of \$13.48M, \$2.15M, and \$10.31M from Q4 of FY23/24, and Q2 and Q4 of FY24/25, respectively.
- The Warnerville Substation Rehabilitation Project \$1.92M cost increase variance is a continuation of \$0.92M and \$1.00M from Q2 and Q3 of FY24/25, respectively.
- The Transmission Lines 7/8 Upgrades \$1.90M cost decrease variance is a continuation from Q4 of FY23/24.
- The Transmission Lines Clearance Mitigation \$23.05M cost increase variance is a continuation from Q4 of FY24/25.
- The Moccasin Warehouse Building \$8.87M cost increase variance is a continuation from Q3 of FY24/25.
- The Early Intake Dam – Long Term \$98.87M cost decrease variance is a continuation from Q4 of FY24/25.
- The Moccasin Dam & Reservoir Long Term Improvements \$22.54M cost increase variance is a continuation from Q1 of FY24/25.
- The Cherry Dam Spillway – Short Term Improvements forecast cost increased by \$4.43M during the quarter.

Table 3. Cost Summary

Subprograms	Expenditures To Date (\$ Million) (A)	Current Approved Budget (\$ Million) (B)	Q1/FY2025-26 Forecast Costs (\$ Million) (C)	Cost Variance (\$ Million) (D = B - C)	Cost Variance Over Reporting Period * (\$ Million) (E)
Water Infrastructure	\$76.11	\$209.41	\$209.41	-	-
Water Conveyance (Water)	\$69.48	\$196.49	\$196.49	-	-
Water Infrastructure Project Development	\$6.63	\$12.91	\$12.91	-	-
Power Infrastructure	\$145.97	\$376.41	\$425.42	(\$49.01)	-
Dams & Reservoir (Power)	\$0.44	\$38.80	\$38.80	-	-

Subprograms	Expenditures To Date (\$ Million) (A)	Current Approved Budget (\$ Million) (B)	Q1/FY2025-26 Forecast Costs (\$ Million) (C)	Cost Variance (\$ Million) (D = B - C)	Cost Variance Over Reporting Period * (\$ Million) (E)
Powerhouse	\$60.28	\$141.61	\$167.55	(\$25.94)	-
Switchyard & Substations (Power)	\$27.62	\$57.12	\$59.04	(\$1.92)	-
Transmission Lines	\$51.98	\$121.01	\$142.16	(\$21.15)	-
Power Infrastructure Project Development	\$5.65	\$17.87	\$17.87	-	-
Joint Infrastructure	\$259.00	\$1,431.00	\$1,367.96	\$63.04	(\$4.43)
Water Conveyance (Joint)	\$9.48	\$331.17	\$331.17	-	-
Buildings (Joint)	\$3.69	\$115.02	\$123.89	(\$8.87)	-
Dams & Reservoirs (Joint)	\$45.80	\$598.86	\$526.95	\$71.90	(\$4.43)
Mountain Tunnel	\$177.60	\$268.67	\$268.67	-	-
Powerhouse (Joint)	\$1.01	\$13.47	\$13.47	-	-
Tunnels (Joint)	\$2.86	\$30.14	\$30.14	-	-
Utilities (Joint)	\$6.49	\$15.38	\$15.38	-	-
Joint Infrastructure Project Development	\$12.07	\$58.29	\$58.29	-	-
Overall Program Total	\$481.08	\$2,016.81	\$2,002.79	\$14.02	(\$4.43)

* Negative number is reflecting cost increases since last quarter, and positive number is reflecting cost reduction since last quarter.

4. PROGRAM SCHEDULE SUMMARY

Figure 4 and Table 4 compare the FY2025–2034 CIP Approved Schedule and the Current Forecast Schedule for the HCIP. As shown in Table 4, the HCIP approved and forecast schedule is December 2041.

Figure 4. Program Schedule Summary

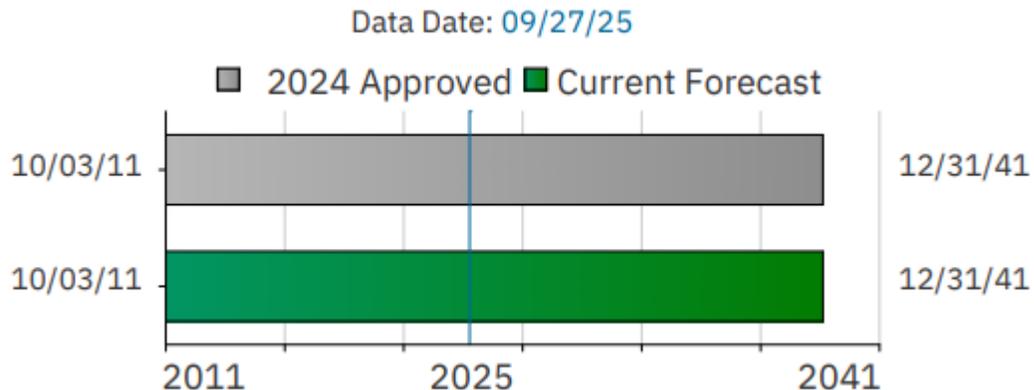


Table 4. FY2025-2034 CIP Approved vs. Current Forecast Schedule Dates

Sub-Program	CIP Approved Project Start	Actual Start	CIP Approved Completion	Current Forecast Completion	Schedule Variance (Months)
Water Infrastructure	03/26/12	03/26/12 A*	06/30/34	06/30/34	-
Power Infrastructure	05/29/12	05/29/12 A*	06/30/34	06/30/34	-
Joint Infrastructure	10/03/11	10/03/11 A*	12/31/41	12/31/41	-
Overall HCIP Projects	10/03/11	10/03/11 A*	12/31/41	12/31/41	-

* "A" is used after a date to reference an actual date as opposed to a forecast or approved date.

5. BUDGET AND SCHEDULE TREND SUMMARY

Table 5 contains all approved HCIP projects that are active and in any of the planning, design, bid and award, or construction phases. The table excludes all Project Development accounts, as well as any projects that are either not-initiated, on-hold, in closeout, or completed.

During this Quarter (Q1 FY2025-26), the following major project milestones were achieved:

- Construction final completion was achieved for SJPL Valve and Safe Entry Improvement Phase 3 – Tesla Surge Tower (HH-1009).
- Construction final completion was achieved for both O’Shaughnessy Dam Outlet Works Phase 1 Subproject A (Bulkheads, DB-135) and Subproject C (Instream Flow Release Valve Replacement, HH-1011).

Table 5. Budget and Schedule Trend Summary

All Costs are shown in million

Project Name	Most Recent CIP Approved Budget		Project Initiation		CER		35% Design		95% Design		Awarded Construction ¹		Current Status	
	Approved Budget	Approved Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion
	a	b	c	d	e	f	g	h	i	j	k	l	m	n
Water Infrastructure														
10035575 - SJPL Valve and Safe Entry Improvement	FY2025-34		07/01/19		04/16/21		03/03/21 (Phase 1A), 05/28/21 (Phase 1B), 08/19/22 (Phase 2) & 12/30/21 (Phase 3)		07/14/21 (Phase 1A), 10/29/21 (Phase 1B), 06/08/23 (Phase 2A), 05/21/24 (Phase 2B/2C) & 03/31/23 (Phase 3)		03/08/22 (Phase 1A), 08/23/22 (Phase 1B), 02/27/24 (Phase 2A), 03/11/25 (Phase 2B/2C) & 01/09/24 (Phase 3)		Q1 - FY2025-26	
Phase 1A Phase 1B Phase 2A Phase 2B/2C Phase 3	\$157.8	02/28/29	\$95.3	07/01/25	\$95.3	07/01/25	\$98.9	03/13/28	\$157.8	02/28/29	\$157.8	02/28/29	\$157.8	02/28/29
10041725 - SJPL Valve Remote Control and Monitoring	FY2025-34		11/14/24		01/27/27		06/29/27		04/28/28		03/29/29		Q1 - FY2025-26	
	\$38.7	12/31/28	\$38.7	12/31/28	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	\$38.7	06/30/31
Power Infrastructure														
10014079 - Cherry-Eleanor Pumps	FY2025-34		01/01/25		09/29/27		05/17/28		06/15/29		06/01/30		Q1 - FY2025-26	
	\$38.8	06/30/31	\$38.8	06/30/31	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	\$38.8	06/03/33
10036809 - HHW - Moccasin Powerhouse Bypass Upgrade	FY2025-34		09/18/20		03/31/23		03/13/24		02/28/25		06/03/26		Q1 - FY2025-26	
	\$41.1	12/01/27	\$15.0	12/01/27	\$40.7	12/01/27	\$41.1	12/01/27	\$41.1	12/01/27	TBD	TBD	\$41.1	07/31/28
10014086 - Moccasin Powerhouse and GSU Rehabilitation	FY2025-34		09/18/20		05/14/21		07/29/19 (Phase 1), 10/01/19 (Phase 2) & 12/29/23 (Phase 3)		09/09/20 (Phase 1), 05/11/22 (Phase 2) & 07/18/25 (Phase 3)		04/13/21 (Phase 1), 05/11/21 (Phase 2) & 08/28/26 (Phase 3)		Q1 - FY2025-26	
Phase 1 Phase 2 Phase 3	\$100.6	12/31/28	\$18.0	10/03/18	\$66.7	04/13/27	\$100.6	12/31/28	\$126.5	03/31/30	\$66.7	12/03/27	\$126.5	03/31/30
10014089 - Transmission Lines Clearance Mitigation	FY2025-34		07/01/17		12/16/24		02/02/27		07/30/27		09/30/26		Q1 - FY2025-26	
	\$83.7	06/30/29	\$83.7	06/30/29	\$83.7	06/30/29	TBD	TBD	TBD	TBD	TBD	TBD	\$106.7	06/30/30
10014087 - Warnerville Substation Rehabilitation Project	FY2025-34		09/01/15 (Phase A), 01/01/21 (Phase B)		N/A (Phase A), 02/25/22 (Phase B)		N/A (Phase A), N/A (Phase B)		N/A (Phase A), 03/20/24 (Phase B)		05/23/17 (Phase A), 11/18/25 (Phase B)		Q1 - FY2025-26	
Phase A - DB-127R Phase B - HH-1017	\$37.4	11/25/26	\$27.2	11/25/26	\$34.2	11/25/26	\$34.2	11/25/26	\$37.4	11/25/26	\$24.3	03/04/20	\$39.3	11/08/27
10039568 - Moccasin Switchyard Rehabilitation	FY2025-34		11/01/22		03/13/26		08/17/26		07/19/27		04/20/28		Q1 - FY2025-26	
	\$19.7	01/31/30	\$9.7	11/30/28	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	\$19.7	01/31/30
Joint Infrastructure														
10014088 - Moccasin Penstock Rehabilitation	FY2025-34		02/03/14		09/03/26		03/05/27		03/02/29		03/06/31		Q1 - FY2025-26	
	\$331.2	12/08/34	\$13.2	12/31/24	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	\$331.2	12/08/34
10039680 - Moccasin Engineering and Records Building ⁴	FY2025-34		12/14/22		05/31/24		10/31/24		01/05/26		08/28/26		Q1 - FY2025-26	
	\$88.7	05/31/29	\$60.7	06/30/31	\$88.7	05/31/29	\$88.7	05/31/29	TBD	TBD	TBD	TBD	\$88.7	05/31/29

Table 5. Budget and Schedule Trend Summary (continued)

All Costs are shown in million

Project Name	Most Recent CIP Approved Budget		Project Initiation		CER		35% Design		95% Design		Awarded Construction ¹		Current Status		
	Approved Budget	Approved Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	Forecast Cost	Forecast Completion	
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	
Water Infrastructure															
10041727 - Moccasin Warehouse Building	FY2025-34		10/15/24		09/12/25		07/24/26		06/01/27		09/05/28		Q1 - FY2025-26		
	\$26.3	04/01/31	\$26.3	04/01/31	\$35.2	04/01/31	TBD	TBD	TBD	TBD	TBD	TBD	\$35.2	04/01/31	
10032903 - O'Shaughnessy Dam Outlet Works Phase I ²	FY2025-34		02/01/18		09/30/21 (Subproject A), Complete (Subproject B), 09/30/22 (Subproject C),		01/12/24 (Subproject A) ⁵ , N/A (Subproject B) & 11/16/22 (Subproject C)		03/18/24 (Subproject A) ⁵ , N/A (Subproject B) & 12/23/22 (Subproject C)		06/13/23 (Subproject A), 08/13/24 (Subproject B) & 06/13/23 (Subproject C)		Q1 - FY2025-26		
	Subproject A														
	Subproject B														
	Subproject C	\$43.7	12/31/25	\$17.2	12/31/24	\$47.9	09/16/25	\$48.0	09/16/25	\$48.0	09/16/25	\$43.7	06/30/26	\$43.7	06/30/26
	Subproject D (Planning Only) Subproject E (Planning Only)														
10037351 - Moccasin Dam & Reservoir Long Term Improvement	FY2025-34		05/03/21		09/30/24		02/02/26		09/03/27		06/09/26		Q1 - FY2025-26		
	\$142.2	12/31/34	\$83.2	07/01/27	\$164.7	12/31/34	TBD	TBD	TBD	TBD	TBD	TBD	\$164.7	06/30/33	
10014115 - Cherry Dam Spillway - Short Term Improvements	FY2025-34		03/01/21		06/28/24		11/22/24		05/16/25		06/24/26		Q1 - FY2025-26		
	\$14.9	06/30/27	\$11.9	07/01/27	\$14.9	06/30/27	\$14.9	06/30/27	\$14.9	06/30/27	TBD	TBD	\$19.3	01/28/28	
10039119 - Early Intake Dam – Long Term ⁶	FY2025-34		07/01/23		-		-		-		-		Q1 - FY2025-26		
	\$100.1	12/31/35	\$88.7	06/30/31	-	-	-	-	-	-	-	-	\$1.2	12/31/35	
10030759 - Eleanor Dam Rehabilitation	FY2025-34		06/01/20		09/04/24 06/30/27		2/25/25 12/29/28		07/09/25 12/31/31		04/26/26 09/30/33		Q1 - FY2025-26		
	Subproject A														
Subproject B	\$113.9	12/31/38	\$113.9	12/31/38	\$113.9	12/31/38	\$113.9	12/31/38	\$113.9	12/31/38	TBD	TBD	\$113.9	12/31/38	
10014114 - Mountain Tunnel Improvement Project	FY2025-34		10/03/11		12/29/17		05/15/18		07/31/19		10/13/20		Q1 - FY2025-26		
	\$268.7	06/03/27	\$114.0	12/30/21	\$246.1	12/31/26	\$238.2	12/31/26	\$238.2	12/31/26	\$238.2	06/03/27	\$268.7	06/03/27	
10037077 - Moccasin Old Powerhouse Hazard Mitigation	FY2025-34		01/01/21		01/30/25		03/04/29		11/06/29		06/17/30		Q1 - FY2025-26		
	\$13.5	07/01/32	\$12.2	01/31/25	\$13.5	07/01/32	TBD	TBD	TBD	TBD	TBD	TBD	\$13.5	07/01/32	
10014108 - Canyon Tunnel - Hetchy Adit Rehab & OSH Bridge	FY2025-34		02/03/14		03/17/23		03/30/16		12/13/24		02/16/27		Q1 - FY2025-26		
	\$30.1	12/31/30	\$0.5	06/30/16	\$15.0	12/30/26	\$8.0	06/30/18	\$30.1	12/31/30	TBD	TBD	\$30.1	12/31/30	
10014110 - Moccasin Wastewater Treatment Plant ³	FY2025-34		01/03/22		-		04/29/22		03/23/23		02/27/24		Q1 - FY2025-26		
	\$15.4	02/20/28	\$8.8	04/07/26	-	-	\$8.8	04/07/26	\$12.0	04/07/26	\$15.4	02/20/28	\$15.4	02/20/28	

Footnotes:

1. This represents forecast project cost and project completion date at the time of award of construction contract (or award of CM/GC or Design-Build contracts/packages).
2. This represents that Subproject A will be doing Progressive Design Build during Construction. Subproject B is in the process of finalizing the design. Subprojects D & E will not be doing CER.
3. This represents that the project started during the Design Phase.
4. This is a building project which follows a different set of milestones. Dates shown for CER, 35% Design, and 95% Design above are for Conceptual Design and Schematic Design, design development, and Construction building project which follows a different set of milestones. Dates shown for CER, 35% Design, and 95% Design above are for Conceptual Design and Schematic Design, design
5. Dates shown are for 50% Design and 100% Design.
6. This project has been placed On-Hold following the submission of the AAR.

6. PROJECT PERFORMANCE SUMMARY*

All costs are shown in \$1,000s

Project Name	Active Phase (a) (**)	CIP Approved Budget (b) (+)	Current Approved Budget (c) (++)	Current Forecast Cost (d)	Expenditures to Date (e)	Cost Variance (f=c-d) (+++)	% Cost Changes (g=f/c) (+++)	CIP Completion Date (h) (+)	Approved Completion Date (i) (++)	Forecast Completion Date (j)	Schedule Variance (Days) (k=i-j) (+++)
Water Infrastructure											
Water Conveyance (Water)											
10035575 SJPL Valve and Safe Entry Improvement	MP	\$157,752	\$157,752	\$157,752	\$69,343	\$0	0%	02/28/29	02/28/29	02/28/29	0
10041725 SJPL Valve Remote Control and Monitoring	PL	\$38,743	\$38,743	\$38,743	\$133	\$0	0%	12/31/28	12/31/28	06/30/31	(911)
Power Infrastructure											
Dams & Reservoirs (Power)											
10014079 Cherry-Eleanor Pumps	PL	\$38,798	\$38,798	\$38,798	\$444	\$0	0%	06/30/31	06/30/31	06/03/33	(704)
Powerhouse											
10036809 HHW - Moccasin Powerhouse Bypass Upgrade	DS	\$41,056	\$41,056	\$41,056	\$3,820	\$0	0%	12/01/27	12/01/27	07/31/28	(243)

* Does not include projects in closeout, completed, not initiated, on hold, deleted projects, and projects combined with other projects.

** Phase Status Legend		
PL Planning	DS Design	
BA Bid & Award	CN Construction	MP Multi-Phase

Footnotes:
(+) CIP Approved Budget and Project Completion Date: The budget and schedule approved as part of 10-year CIP for FY25-34.
(++) Current Approved Budget and Schedule: The budget and schedule approved as part of 10-year CIP for FY25-34, plus any additional budget and schedule changes approved by the Commission as part of construction contract award.
(+++) Negative number reflects cost overrun (or schedule delay) and positive number reflects cost underrun (or ahead of schedule). Projects with a forecasted cost overrun greater than 10%, or forecasted delay of greater than 6 months or 10%, will be highlighted in grey.

Project Name	Active Phase (a) (**)	CIP Approved Budget (b) (+)	Current Approved Budget (c) (++)	Current Forecast Cost (d)	Expenditures to Date (e)	Cost Variance (f=c-d) (+++)	% Cost Changes (g=f/c) (+++)	CIP Completion Date (h) (+)	Approved Completion Date (i) (++)	Forecast Completion Date (j)	Schedule Variance (Days) (k=i-j) (+++)
10014086 Moccasin Powerhouse and GSU Rehabilitation	MP	\$100,556	\$100,556	\$126,496	\$56,457	(\$25,940)	(26%)	12/31/28	12/31/28	03/31/30	(455)
Transmission Lines											
10014089 Transmission Lines Clearance Mitigation	BA	\$83,681	\$83,681	\$106,736	\$19,410	(\$23,055)	(28%)	06/30/29	06/30/29	06/30/30	(365)
Switchyard & Substations (Power)											
10014087 Warnerville Substation Rehabilitation Project	BA	\$37,407	\$37,407	\$39,328	\$26,786	(\$1,921)	(5%)	11/25/26	11/25/26	11/08/27	(348)
10039568 Moccasin Switchyard Rehabilitation	PL	\$19,708	\$19,708	\$19,708	\$838	\$0	0%	01/31/30	01/31/30	01/31/30	0
Joint Infrastructure											
Water Conveyance (Joint)											

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** Phase Status Legend		
PL	Planning	DS Design
BA	Bid & Award	CN Construction
MP	Multi-Phase	

Footnotes:
(+) CIP Approved Budget and Project Completion Date: The budget and schedule approved as part of 10-year CIP for FY25-34.
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Project Name	Active Phase (a) (**)	CIP Approved Budget (b) (+)	Current Approved Budget (c) (++)	Current Forecast Cost (d)	Expenditures to Date (e)	Cost Variance (f=c-d) (+++)	% Cost Changes (g=f/c) (+++)	CIP Completion Date (h) (+)	Approved Completion Date (i) (++)	Forecast Completion Date (j)	Schedule Variance (Days) (k=i-j) (+++)
10014088 Moccasin Penstock Rehabilitation	PL	\$331,172	\$331,172	\$331,172	\$9,485	\$0	0%	12/08/34	12/08/34	12/08/34	0
Buildings (Joint)											
10039680 Moccasin Engineering and Records Building	DS	\$88,734	\$88,734	\$88,734	\$3,346	\$0	0%	05/31/29	05/31/29	05/31/29	0
10041727 Moccasin Warehouse Building	PL	\$26,290	\$26,290	\$35,157	\$342	(\$8,867)	(34%)	04/01/31	04/01/31	04/01/31	0
Dams & Reservoirs (Joint)											
10032903 O'Shaughnessy Dam Outlet Works Phase 1	MP	\$43,731	\$43,731	\$43,731	\$32,004	\$0	0%	12/31/25	12/31/25	06/30/26	(181)
10037351 Moccasin Dam & Reservoir Long Term Improvement	DS	\$142,188	\$142,188	\$164,728	\$7,247	(\$22,540)	(16%)	12/31/34	12/31/34	06/30/33	549

* Does not include projects in closeout, completed, not initiated, on hold, deleted projects, and projects combined with other projects.

** Phase Status Legend			
PL	Planning	DS	Design
BA	Bid & Award	CN	Construction
MP	Multi-Phase		

Footnotes:
(+) CIP Approved Budget and Project Completion Date: The budget and schedule approved as part of 10-year CIP for FY25-34.
(++) Current Approved Budget and Schedule: The budget and schedule approved as part of 10-year CIP for FY25-34, plus any additional budget and schedule changes approved by the Commission as part of construction contract award.
(+++) Negative number reflects cost overrun (or schedule delay) and positive number reflects cost underrun (or ahead of schedule). Projects with a forecasted cost overrun greater than 10%, or forecasted delay of greater than 6 months or 10%, will be highlighted in grey.

Project Name	Active Phase (a) (**)	CIP Approved Budget (b) (+)	Current Approved Budget (c) (++)	Current Forecast Cost (d)	Expenditures to Date (e)	Cost Variance (f=c-d) (+++)	% Cost Changes (g=f/c) (+++)	CIP Completion Date (h) (+)	Approved Completion Date (i) (++)	Forecast Completion Date (j)	Schedule Variance (Days) (k=i-j) (+++)
10014115 Cherry Dam Spillway - Short Term Improvements	BA	\$14,886	\$14,886	\$19,315	\$3,925	(\$4,429)	(30%)	06/30/27	06/30/27	01/28/28	(212)
10030759 Eleanor Dam Rehabilitation	MP	\$113,874	\$113,874	\$113,874	\$1,635	\$0	0%	12/31/38	12/31/38	12/31/38	0
10039119 Early Intake Dam - Long Term	PL	\$100,072	\$100,072	\$1,200	\$985	\$98,872	99%	12/31/35	12/31/35	12/31/35	0
Mountain Tunnel											
10014114 Mountain Tunnel Improvement Project	CN	\$268,669	\$268,669	\$268,669	\$177,596	\$0	0%	06/03/27	06/03/27	06/03/27	0
Powerhouse (Joint)											
10037077 Moccasin Old Powerhouse Hazard Mitigation	PL	\$13,475	\$13,475	\$13,475	\$1,008	\$0	0%	07/01/32	07/01/32	07/01/32	0
Tunnels (Joint)											

* Does not include projects in closeout, completed, not initiated, on hold, deleted projects, and projects combined with other projects.

** Phase Status Legend		
PL	Planning	DS Design
BA	Bid & Award	CN Construction
		MP Multi-Phase

Footnotes:
(+) CIP Approved Budget and Project Completion Date: The budget and schedule approved as part of 10-year CIP for FY25-34.
(++) Current Approved Budget and Schedule: The budget and schedule approved as part of 10-year CIP for FY25-34, plus any additional budget and schedule changes approved by the Commission as part of construction contract award.
(+++) Negative number reflects cost overrun (or schedule delay) and positive number reflects cost underrun (or ahead of schedule). Projects with a forecasted cost overrun greater than 10%, or forecasted delay of greater than 6 months or 10%, will be highlighted in grey.

Project Name	Active Phase (a) (**)	CIP Approved Budget (b) (+)	Current Approved Budget (c) (++)	Current Forecast Cost (d)	Expenditures to Date (e)	Cost Variance (f=c-d) (+++)	% Cost Changes (g=f/c) (+++)	CIP Completion Date (h) (+)	Approved Completion Date (i) (++)	Forecast Completion Date (j)	Schedule Variance (Days) (k=i-j) (+++)
10014108 Canyon Tunnel - Hetchy Adit Rehab & OSH Bridge	DS	\$30,138	\$30,138	\$30,138	\$2,861	\$0	0%	12/31/30	12/31/30	12/31/30	0
Utilities (Joint)											
10014110 Moccasin Wastewater Treatment Plant	CN	\$15,377	\$15,377	\$15,377	\$6,495	\$0	0%	02/20/28	02/20/28	02/20/28	0

* Does not include projects in closeout, completed, not initiated, on hold, deleted projects, and projects combined with other projects.

** Phase Status Legend		
PL Planning	DS Design	
BA Bid & Award	CN Construction	MP Multi-Phase

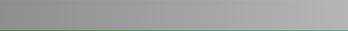
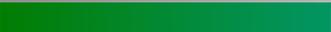
Footnotes:
(+) CIP Approved Budget and Project Completion Date: The budget and schedule approved as part of 10-year CIP for FY25-34.
(++) Current Approved Budget and Schedule: The budget and schedule approved as part of 10-year CIP for FY25-34, plus any additional budget and schedule changes approved by the Commission as part of construction contract award.
(+++) Negative number reflects cost overrun (or schedule delay) and positive number reflects cost underrun (or ahead of schedule). Projects with a forecasted cost overrun greater than 10%, or forecasted delay of greater than 6 months or 10%, will be highlighted in grey.

7. PROJECT STATUS REPORT

10035575 - SJPL Valve and Safe Entry Improvement

Project Description: San Joaquin Pipeline (SJPL) Nos. 1, 2, and 3 consist of three parallel transmission pipelines (completed in 1932, 1953, and 1968, respectively) that cross the San Joaquin Valley from the east of Foothill Tunnel at Oakdale Portal to the west of Coast Range Tunnel at Tesla Portal, a distance of approximately 48 miles. A fourth partial pipeline (SJPL 4 completed in 2012) consists of a 6.4-mile segment of pipe downstream of Oakdale and another 11-mile segment upstream of Tesla Portal. SJPLs deliver Tuolumne River water to the San Francisco Bay Area. They have been in service ranging from 11 to 91 years. SFPUC staff members and contractors need to enter the pipelines regularly to perform condition assessment, maintenance, and repair work. A recent hydraulic study shows that several of the existing valves in the SJPLs may be under-rated for the potential surge pressures that could be triggered from an unplanned closure of the valves at the downstream Tesla Ultraviolet Treatment Facility. For safety reasons, the SFPUC initiated this capital project to increase the pressure rating of the valves, provide safe pipeline isolations for personnel entry into the pipelines, and allow shutdown of any section of the SJPLs without a complete system shutdown.

Program: Water Infrastructure	Project Status: Multi-Phases	Environmental Status: Completed (Cat Ex)
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Project Cost:		Project Schedule:	
Approved		\$ 157.75 M	Approved 07/01/19  02/28/29
Forecast		\$ 157.75 M	Forecast 07/01/19  02/28/29
Actual		\$ 69.34 M	Project Percent Complete: 46.0%

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion	
Current Forecast	A	01/27/22 A	12/25/21 A	05/16/22 A	11/19/25
	B	01/27/22 A	04/21/22 A	11/07/22 A	09/11/24 A
	C	01/27/22 A	11/28/23 A	05/13/24 A	01/28/26
	D	01/27/22 A	11/21/24 A	05/01/25 A	08/16/28
	E	08/10/22 A	09/21/23 A	02/26/24 A	08/19/25 A

Progress and Status:

This project is divided into five (5) subprojects: (A) Phase 1A – Pipeline 2 Tesla & Oakdale Entry Improvements – HH-1005; (B) Phase 1B – Pipelines 3&4 Tesla & Oakdale Entry Improvements – HH-1006; (C) Phase 2A – Crossover Valve Improvement Pipelines 2&3 – HH-1012; (D) Phase 2B/2C – Removable Spool Piece and Valve Improvements at Crossovers and P4J – HH-1016; and (E) Phase 3 – Tesla Surge Tower – HH-1009. Phase 1A (HH-1005): The project team is working with the contractor to resolve challenges with functionality of the knife gate valves so the contract can be closed out. Phase 1B (HH-1006): Completed. Phase 2A (HH-1012): The project team approved the contractor’s work plans to repair or replace the equipment damaged during the previous flooding event at Roselle Valve House, with restoration work scheduled to begin next quarter. Phases 2B/2C (HH-1016): The contractor completed potholing and pre-construction inspections; and is preparing work plans for the upcoming Hetch Hetchy system shutdown. Phase 3 (HH-1009): the contractor achieved Final Completion during this quarter. However, an underground leak was discovered that the contractor is investigating. The resolution will be provided in the next quarterly report.



Newly Manufactured Butterfly Valves

Issues and Challenges:

None at this time.

10041725 - SJPL Valve Remote Control and Monitoring

Project Description: Design, procure, and construct new SJPL remote supervisory controls that would enable remote operation from Moccasin to remotely operate valve actuators. The project includes data telemetry improvements, Remote Terminal Unit (RTU) installation/replacement, trans-valley communication system upgrades, power system upgrades, security improvements, and access improvements.

Program: Water Infrastructure	Project Status: Planning	Environmental Status: Not Initiated (Cat Ex)
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Project Cost:		Project Schedule:	
Approved		\$ 38.74 M	Approved 10/01/24  12/31/28
Forecast		\$ 38.74 M	Forecast 12/01/24  06/30/31
Actual		\$ 0.13 M	Project Percent Complete: 2.5%

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	07/28/28	07/29/28	03/30/29	12/30/30

Progress and Status:

This project addresses the need to ensure reliable power for remote valve control at seven structures along the SJPL system. Review comments were received, and the consultant began incorporating into a revised draft Needs Assessment Report (NAR). It is expected that the revised draft will be submitted, and a review workshop will be held with the final NAR submitted next quarter.

Issues and Challenges:

As reported last quarter, the schedule variance is due to delay in starting of the initial planning phase. Validation of the scope has also necessitated an extension of the schedule.



Oakdale Portal along the SJPL

10014079 - Cherry-Eleanor Pumps

Project Description: Replace and upgrade pumps in Cherry Pump Station with units that work with current operating strategies. The scope of work includes: 1) replacement of pumps, transformer, and pump motor starters; 2) installation of Programmable Logic controller (PLC), SCADA system, and fiber optics; and 3) improvement of the existing motor control center (MCC) building.

Program: Power Infrastructure	Project Status: Planning	Environmental Status: Not Initiated (TBD)
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Project Cost:		Project Schedule:	
Approved	\$ 38.80 M	Approved 01/01/25	06/30/31
Forecast	\$ 38.80 M	Forecast 01/01/25	06/03/33
Actual	\$ 0.44 M	Project Percent Complete: 2.5%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	09/30/29	10/01/29	06/02/30	12/02/32

Progress and Status:

This project identifies the needs to replace and upgrade the 10 pumps at Cherry Eleanor Pump Station to restore water transfer capabilities. Review comments were received and incorporated into a revised draft Needs Assessment Report (NAR). A review workshop will be conducted prior to finalizing the report next quarter.

Issues and Challenges:

As reported last quarter, the schedule variance is due to delay in starting of the initial planning phase. Validation of the scope has also necessitated an extension of the schedule.



Cherry-Eleanor Pump Station at Cherry Reservoir

10036809 - HHW - Moccasin Powerhouse Bypass Upgrade

Project Description: Provide a reliable hydraulic bypass and energy dissipation system, conveying water around the turbines to the Moccasin Powerhouse Tailrace. Upgrade/replace high-pressure energy-dissipating valves, control systems, and associated structures to absorb 1,147 feet of pressure head and 430 cubic feet per second flow without damage.

Program: Power Infrastructure	Project Status: Design	Environmental Status: Active (Cat Ex)
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Project Cost:		Project Schedule:	
Approved	\$ 41.06 M	Approved 09/18/20	12/01/27
Forecast	\$ 41.06 M	Forecast 09/18/20	07/31/28
Actual	\$ 3.82 M	Project Percent Complete: 7.8%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	11/21/25	12/04/25	08/01/26	01/30/28

Progress and Status:

The project team conducted an Independent Technical Review (ITR) of the 95% design submittal which identified significant hydraulic concerns. As a result, the team has postponed finalizing the design and advertising the contract to allow time to address the review findings. Currently three alternatives are being evaluated by the consultant design team. Each alternative will be developed and presented to project stakeholders in the next quarter. A revised project schedule will be developed once the design solution is selected and the level of effort required to complete the final design is better understood.

Issues and Challenges:

At this time the design team is addressing concerns that were highlighted from the 95% review. The hydraulic review revealed the need to redesign elements of the bypass to smooth out flow to decrease cavitation and high velocity discharge. The project team is analyzing three options to optimize the system hydraulics. The Moccasin Powerhouse Bypass Project is a critical project and significant changes to the schedule may impact other projects at the powerhouse. The project team is reviewing potential design solutions and the extent of the impact on the overall project schedule and budget. The project schedule and cost will be updated when impacts are better understood.



Options being Analyzed by the Design Team for New Valve House Location to Optimize System Hydraulics

10014086 - Moccasin Powerhouse and GSU Rehabilitation

Project Description: The project is broken down into three components: 1) Generator Rehabilitation replace the entire generator and associated equipment, including new stator cores and coils, rotor poles, relays, and rotor rim; 2) GSU Replacement replace two of the three existing generator step-up transformers (GSUs), new foundations and oil containment, and relay upgrades; and 3) Power Plant Systems Upgrades replace the 480 V switchgear, 13.8 kV switchgear, motor control centers, main control boards, protective relays, cooling water piping, and improving oil containment systems.

Program: Power Infrastructure	Project Status: Multi-Phases	Environmental Status: Completed (Cat Ex)
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Project Cost:		Project Schedule:	
Approved	\$ 100.56 M	Approved 09/18/20	12/31/28
Forecast	\$ 126.50 M	Forecast 09/18/20	03/31/30
Actual	\$ 56.46 M	Project Percent Complete: 60.6%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
A	09/28/20 A	11/20/20 A	06/07/21 A	06/26/23 A
Current Forecast	B	10/30/20 A	08/15/22 A	01/07/26
C	09/28/20 A	02/28/26	11/01/26	03/31/29

Progress and Status:

For Subproject A - Moccasin Powerhouse Generator Step-Up (GSU's) Transformers, the project close out tasks for contract HH-1003R have been completed. For Subproject B - Moccasin Powerhouse Generators Rewind (DB-121R2), the contractors proposed solution to the unexpected pre-existing shaft alignment issues that were discovered earlier this year were successful and the project team was able to realign the Unit. Commissioning is on schedule and substantial completion is on track for next quarter. For Subproject C - Moccasin Powerhouse Systems Upgrade, the 95% design submittal was resubmitted and is being reviewed by the stakeholders.

Issues and Challenges:

As reported last quarter, the variance between the approved budget and forecasted cost is due to increased cost contingency of the DB-121R2 contract as well as forecasted cost increases in Subproject C – Systems Upgrade, where higher costs are anticipated from scope refinement, higher construction and procurement costs, and additional construction management and support resource requirements. The Commission approved increases to cost and duration contingencies of DB-121R2 to address issues with the shaft alignment of Generator Unit M1. Substantial completion is now projected for November 2025. Moccasin Powerhouse System Upgrades design schedule was initially delayed due to the need to respond to a large number of 65% design review comments. Additionally, the 95% design package was rejected due to quality concerns and the review period was extended to complete a thorough review. The project team is reviewing if there are any additional impacts on the overall project schedule including planned project



Thrust Block Back on Site for Unit 1 Assembly

outages and will report when impacts are better understood.

10014089 - Transmission Lines Clearance Mitigation

Project Description: This project will provide funding to implement mitigation measures to resolve clearance discrepancies. Mitigation options include but are not limited to new towers/tubular poles, new intervening poles, tower raises, ground lowering, and other structural improvements to the lattice towers.

Program: Power Infrastructure	Project Status: Bid and Award	Environmental Status: Active (Cat Ex)
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Project Cost:		Project Schedule:	
Approved	\$ 83.68 M	Approved 07/01/17	06/30/29
Forecast	\$ 106.74 M	Forecast 07/01/17	06/30/30
Actual	\$ 19.41 M	Project Percent Complete: 31.2%	

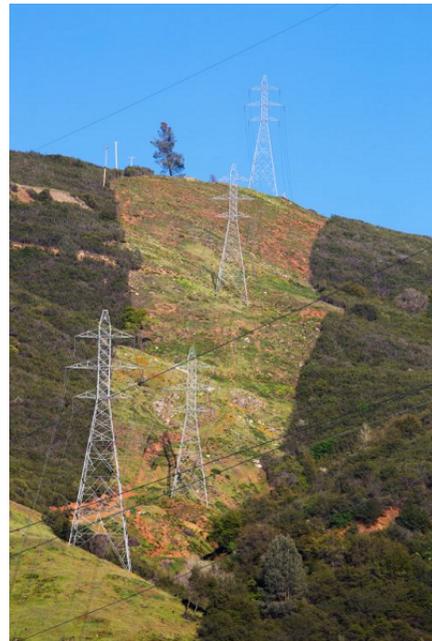
Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	06/30/26	04/24/25 A	11/06/27	12/28/29

Progress and Status:

Two bids were received in response to the solicitation; however, both bids were rejected following the submission of a protest that identified concerns with elements of the City’s evaluation criteria. The draft California Environmental Quality Act (CEQA) Categorical Exemption is in progress and is undergoing internal reviews.

Issues and Challenges:

The recent bid rejection effect on the budget and schedule is currently being evaluated. An estimated schedule extension has been indicated during this quarter, because of the bid rejection and resulting readvertisement. The impacts will be further defined and communicated in a future update.

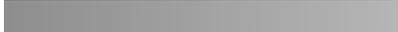
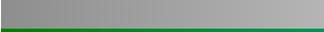


Transmission Lines 5 & 6 in Moccasin

10014087 - Warnerville Substation Rehabilitation Project

Project Description: The additional funding request is to cover the remaining work for Warnerville Substation Rehabilitation Project. Under Design Build Contract #DB-127R, installation of some 230 kV equipment was deleted from the contract but procured, including circuit breakers, switches, insulators, and current voltage transformers. Remaining work includes the replacement of four oil circuit breakers, bushings, surge arrestors, disconnect switches, current voltage transformer, insulators, relay protection, and other ancillary equipment.

Program: Power Infrastructure	Project Status: Bid and Award	Environmental Status: Completed (Cat Ex)
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Project Cost:		Project Schedule:	
Approved	 \$ 37.41 M	Approved 09/01/15	 11/25/26
Forecast	 \$ 39.33 M	Forecast 09/01/15	 11/08/27
Actual	 \$ 26.79 M	Project Percent Complete: 81.2%	

Key Milestones		Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	A	03/31/16 A	01/10/17 A	11/26/18 A	12/20/24 A
	B	10/24/24 A	04/24/25 A	12/18/25	05/08/27

Progress and Status:

This project is divided into two subprojects. Subproject A – Warnerville Substation Rehabilitation Phase 1 (DB-127R): The contract has been completed and close out is underway. Subproject B – Warnerville Substation Rehabilitation Phase 2 (HH-1017): The contract was advertised last quarter, and two bids were received and opened in June. Both bids came in below the Engineer’s estimate. No bid protests were filed prior to the protest deadline. SFPUC Commission approved the award of the construction contract. Notice-to-Proceed (NTP) is expected by next quarter.

Issues and Challenges:

As previously reported, the increased cost and extended schedule duration are primarily driven by longer than expected high voltage equipment lead times and rising labor costs. Additionally, broader market conditions, including post-pandemic supply chain delays and labor shortages, have increased costs across all work scopes.



Aerial View of Warnerville Substation, Oakdale

10039568 - Moccasin Switchyard Rehabilitation

Project Description: Replace 115 kV disconnect switches, replace 115 kV bus configuration, replace 230 kV disconnect switches, change 230 kV bus configuration, replace 115 kV circuit breakers, add surge arresters, perform a fault study, perform a grounding study, improve switchyard grading, and replace fencing.

Program: Power Infrastructure	Project Status: Planning	Environmental Status: Not Initiated (TBD)
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Project Cost:		Project Schedule:	
Approved	\$ 19.71 M	Approved 11/01/22	01/31/30
Forecast	\$ 19.71 M	Forecast 11/01/22	01/31/30
Actual	\$ 0.84 M	Project Percent Complete: 8.1%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	09/22/27	01/20/28	05/22/28	07/31/29

Progress and Status:

The Needs Assessment Report (NAR) submission and revision were completed. The consultant is working on incorporating the comments into the revised NAR. The comments to the NAR proposed including in the project scope: evaluation of the current condition of the spare transformer, option to relocate the entire switchyard, inclusion of conduit pathways for fiber optics to the breakers, adherence to the SFPUC physical security guidelines, consideration of options for SF6 gas alternative, evaluation of conditions of underground cables, and replacement of motor operated switches. First draft of Alternative Analysis Report (AAR) is anticipated by next quarter.



Existing Moccasin Switchyard

Issues and Challenges:

None at this time.

10014088 - Moccasin Penstock Rehabilitation

Project Description: In order to meet the established level of service, mitigate potential risks, and avoid potential consequences of failure, SFPUC is considering replacing the penstocks so that the life of the asset will be extended for a minimum 75 years. Based on a preliminary study, a combination of a drop shaft, a tunnel and above grade pipes appears to be a favorable alternative. SFPUC will continue the study before determining the most appropriate alternative solution. For capital planning purposes, SFPUC assumes the alternative will include: 1) a drop shaft; 2) a new tunnel penstock; and 3) two above-grade penstocks.

Program: Joint Infrastructure	Project Status: Planning	Environmental Status: Not Initiated (EIR)
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Project Cost:		Project Schedule:	
Approved	\$ 331.17 M	Approved 02/03/14	12/08/34
Forecast	\$ 331.17 M	Forecast 02/03/14	12/08/34
Actual	\$ 9.48 M	Project Percent Complete: 3.9%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	09/04/29	09/06/30	05/07/31	05/07/34

Progress and Status:

The project team continued to evaluate the additional alternatives and the Right of Way issues. A site visit was conducted during this quarter to inspect the West Portal Surge Shaft and to perform geologic reconnaissance. Draft Alternative Analysis Report and the proposed geotechnical investigation program will be modified to further consider the additional alignments.

Issues and Challenges:

None at this time.



West Portal Surge Shaft

10039680 - Moccasin Engineering and Records Building

Project Description: HHWP Project operations and administration is located in Moccasin, California, with facilities including buildings, office trailers, warehouses, shops, laboratories, and sheds. Many existing facilities are deteriorating, do not meet current building codes, and are incurring increased maintenance costs. HHWP needs to invest in new facilities to meet all applicable codes and standards; reduce maintenance costs; increase employee interconnectivity and productivity; properly store all staff, materials, records, and equipment; and meet energy-efficiency standards. HHWP prepared a report titled "Moccasin Facilities Upgrade Project Alternatives Analysis and Evaluation Report Update". The report identified long-term needs for creating adequate office space for current staff in Moccasin. In addition, the report evaluated the needs for new, dedicated materials storage space, new records and archives space with offices, new space for servers, and parking space for staff. The Moccasin Engineering and Records Building project will address the need for permanent office space by constructing a new two-story building. Hetch Hetchy and Infrastructure staff are currently located in temporary trailers that have exceeded their useful life. The new building will provide office space for Hetch Hetchy Engineering, Records, Energy Services, Infrastructure, and ITS staff. The scope also includes a secure server room, parking lot, and archive/records storage. The budget and schedule for the project will be modified to provide permanent office space for both Hetch Hetchy and Infrastructure staff and to address escalation since the completion of the 2020 Alternatives Analysis Report estimate.

Program: Joint Infrastructure		Project Status: Design		Environmental Status: Active (Cat Ex)	
Project Cost:			Project Schedule:		
Approved		\$ 88.73 M	Approved 12/14/22		05/31/29
Forecast		\$ 88.73 M	Forecast 12/14/22		05/31/29
Actual		\$ 3.35 M	Project Percent Complete: 6.5%		
Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion	
Current Forecast	12/31/25	06/09/26	02/01/27	11/30/28	

Progress and Status:

The Design Development package was completed and submitted for permitting review. During the review, the Fire Department identified a fire protection code requirement that affects the water capacity needed for the project. The project team is now progressing on the 65% Construction Document package, which is anticipated to be completed next quarter.

Issues and Challenges:

The Fire Department’s review comments regarding fire protection code and water capacity requirements for the new building are being evaluated by the project team to determine any potential impact on the budget and schedule.



New Moccasin Engineering & Records Building, Southwest Elevation Rendering

10041727 - Moccasin Warehouse Building

Project Description: The Moccasin Old Powerhouse was constructed in 1926 and abandoned in the 1960s. The building has multiple structural and nonstructural issues, including cracks, spalling of structural concrete, water intrusion, broken windows, settlement, hazardous materials, and seismic deficiencies. The building is currently used for storage of large equipment and critical spares for the Hetch Hetchy Water and Power system. As a result of the multiple issues, it was determined to demolish the building. A new warehouse is therefore necessary for the storage of the large equipment and critical spares for the Hetch Hetchy Water and Power system that was previously stored in the Moccasin Old Powerhouse. This project includes a construction of a new 9,000-square-foot warehouse within the Moccasin campus to store large equipment and critical spare components for the Hetch Hetchy Water and Power System. The building will include office space for warehouse staff including records retention for warehouse and materials documentation.

Program: Joint Infrastructure	Project Status: Planning	Environmental Status: Active (TBD)
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Project Cost:		Project Schedule:	
Approved	\$ 26.29 M	Approved 01/01/25	04/01/31
Forecast	\$ 35.16 M	Forecast 10/15/24	04/01/31
Actual	\$ 0.34 M	Project Percent Complete: 3.0%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	09/10/27	06/22/28	04/02/29	10/01/30

Progress and Status:

Hetch Hetchy Water and Power (HHWP) confirmed the new warehouse location. The design team completed the draft Conceptual Design package and it is under review.

Issues and Challenges:

As reported last quarter, HHWP requested an increase in the warehouse building size from 9,000 square feet to 15,000–20,000 square feet. This change has resulted in a scope increase and a variance between the forecasted cost and the approved budget. The project team will reassess the scope, schedule, and budget upon receipt of a third-party cost estimate, anticipated by next quarter.



Conceptual Rendering of the Moccasin Warehouse Building

10032903 - O'Shaughnessy Dam Outlet Works Phase 1

Project Description: O'Shaughnessy Dam was completed in 1923 and raised in 1938. A condition assessment of the dam outlet works revealed the need for improvements to the existing outlet works, including gates and valves (1923 construction), to ensure safe and reliable operation. Based on engineering studies and prioritization of asset condition, needs, and risks, improvements to the existing outlet works will be implemented in two phases. Funding for this project will include work under Phase 1. Phase 2 of the O'Shaughnessy Dam Outlet Improvement Project begins in 2025. Work under Phase 1 will include: (1) replacement of two existing instream flow release valves; (2) improvements to access and drainage in the dam gallery and stairs; (3) installation of new bulkheads for the outlet intake; and (4) a planning phase and scoping for the slide gates and drum gates improvements.

Program: Joint Infrastructure	Project Status: Multi-Phases	Environmental Status: Completed (Cat Ex)
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Project Cost:		Project Schedule:	
Approved	 \$ 43.73 M	Approved 02/01/18	 12/31/25
Forecast	 \$ 43.73 M	Forecast 02/01/18	 06/30/26
Actual	 \$ 32.00 M	Project Percent Complete: 88.1%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion	
Current Forecast	A	12/02/22 A	01/13/23 A	05/24/24 A	08/30/25 A
	B	12/02/22 A	05/03/24 A	11/12/24 A	12/06/25
	C	12/02/22 A	03/13/23 A	08/28/23 A	09/15/25 A

Progress and Status:

This project is divided into five subprojects. Subproject A (Bulkheads, DB-135): The project team worked on reconciling costs and completing documentation required for contract closeout. Subproject B (Drainage & Miscellaneous Dam Improvements, HH-1015): The contractor completed cleaning approximately three-quarters of the internal drains within the operating chambers. Fabrication of the new steel platforms is in progress, with installation scheduled for next quarter. Subproject C (Instream Flow Release (IFR) Valve Replacement, HH-1011): The project team reconciled costs and is finalizing the contract documents to complete closeout activities. Subproject D (Slide Gates): The Draft Final Needs Assessment Report was distributed for internal review. Subproject E (Drum Gates): The project team conducted an internal review workshop and continued finalizing the combined Needs Assessment and Alternatives Analysis Report.

Issues and Challenges:

The variance between the approved and forecasted project completion date is due to the longer-than-expected coordination of construction water treatment and discharge requirements for the Drainage & Miscellaneous Improvements construction contract (Subproject B).



Subproject B Drainage & Misc Improvements - Site Preparation for Concrete Demolition within Tunnel

10037351 - Moccasin Dam & Reservoir Long Term Improvement

Project Description: A heavy storm event in 2018 caused significant damage to the auxiliary spillway, upstream trash rack and diversion, and downstream area. Subsequent engineering studies concluded that improvements are needed to increase the spillway capacity to safely pass the updated design flood without overtopping the existing embankment dam. This project is needed for dam safety. This project will construct a new concrete spillway with adequate flow capacity along the alignment of the existing auxiliary spillway and additional flood protection to the Moccasin project facilities.

Program: Joint Infrastructure	Project Status: Design	Environmental Status: Active (TBD)
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Project Cost:		Project Schedule:	
Approved	\$ 142.19 M	Approved 05/03/21	12/31/34
Forecast	\$ 164.73 M	Forecast 05/03/21	06/30/33
Actual	\$ 7.25 M	Project Percent Complete: 6.3%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	09/30/27	02/03/26	10/01/28	06/30/32

Progress and Status:

The current lead design consultant for the project needs to be changed to avoid a potential conflict of interest due to their role as program management consultant. The Engineering Management Bureau reviewed various options for procuring a new consultant to complete the design and provide engineering support during the construction phase. A recommendation will be presented to the Commission in October 2025. In parallel, the project team is preparing a combined Request for Qualifications and Proposals (RFQ&P) for the Construction Manager/General Contractor (CM/GC) delivery method to initiate the procurement process.



Existing Auxiliary Spillway and Grizzly Gulch Canal

Issues and Challenges:

Based on preliminary discussions with the Planning Department, the expected California Environmental Quality Act process has changed from an Environmental Impact Report (EIR) to a Mitigated Negative Declaration (MND), which is anticipated to reduce the overall project duration by approximately 18 months. As reported previously, the variance between the forecasted cost and the approved budget is due to projected cost increase in the 35% cost estimate and is primarily driven by recent increases in concrete and steel prices. The project team continues to monitor market conditions and cost trends as the design and procurement efforts progress.

10014115 - Cherry Dam Spillway - Short Term Improvements

Project Description: Cherry Dam Spillway is a 334 foot-wide ogee-type concrete weir that discharges into an unlined adjacent channel. The spillway capacity is designed for 52,000 cfs. A spill of 1,500 cfs in 2010 resulted in significant erosion damage to the unlined spill channel, large-scale erosion along the western segment of Cherry Dam, and flooding of Cherry Power Tunnel Adit and a campground downstream. Engineering studies showed that remedial measures and erosion protection for the spill channel are needed to ensure that spill flows from Cherry Valley Dam spillway can be contained without erosion damage to the existing embankment dam and downstream area. Studies also found that long-term improvement to the spillway is needed to increase the hydraulic capacity of the spillway to safely pass the design flood. This project is a short-term interim solution until the long-term spillway improvements are implemented. This project will reestablish containment for the breached spill channel section from the 2010 spill and install armoring to protect the upper spill channel section against erosion from spillway releases of up to 2,000 cubic feet per second.

Program: Joint Infrastructure	Project Status: Bid and Award	Environmental Status: Active (MND)
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Project Cost:		Project Schedule:	
Approved		Approved 03/01/21	
Forecast		Forecast 03/01/21	
Actual		Project Percent Complete: 24.8%	

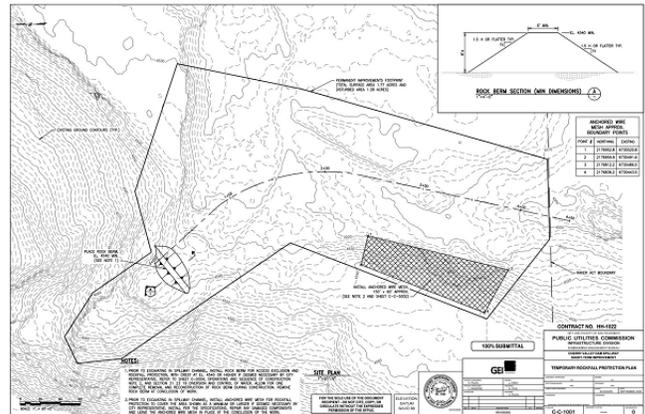
Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	01/02/26	11/04/25	06/29/26	07/30/27

Progress and Status:

Hetch Hetchy Vegetation Crew will perform tree removal required for the project, and a JOC is no longer needed. The project team combined the Cherry Dam Spillway – Short Term Improvements project with the Eleanor Dam Interim Bridge Repairs subproject into one single construction contract to attract more bidders. The project team is working on bid documents for contract advertisement in next quarter.

Issues and Challenges:

During the 65% design review, the project team determined that additional excavation and armoring of the upper spillway would be required to achieve the project objectives. As a result, the construction cost increased along with corresponding soft cost increases. This raised the total project budget to \$19.3M, resulting an increase to the overall project cost compared to the approved project cost. Additionally, the construction phase was extended to include the 2027 season; therefore, the new construction phase completion date is July 30, 2027.



100% Design; Temporary Rockfall Protection Plan

10030759 - Eleanor Dam Rehabilitation

Project Description: Mitigation alternatives will include improvements to increase spill capacity to safely pass the design flood, installation of a liner on the upstream face of the dam, concrete repairs, valve replacement, and installation of concrete lining and riprap for foundation armoring, and replacement of the existing bridge.

Program: Joint Infrastructure	Project Status: Multi-Phases	Environmental Status: Active (Various)
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Project Cost:		Project Schedule:	
Approved	\$ 113.87 M	Approved 06/01/20	12/31/38
Forecast	\$ 113.87 M	Forecast 06/01/20	12/31/38
Actual	\$ 1.64 M	Project Percent Complete: 3.3%	

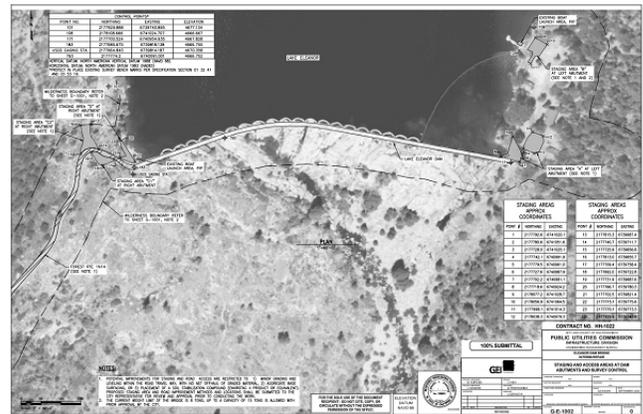
Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion	
Current Forecast	A	06/01/26	11/04/25	06/29/26	07/30/27
	B	12/31/32	01/01/33	10/01/33	12/31/37

Progress and Status:

This project is divided into two subprojects: (A) the Eleanor Dam Bridge Interim Repairs and (B) the Eleanor Dam and Bridge Long-Term Rehabilitation. For subproject (A), the project team combined the Cherry Dam Spillway – Short Term Improvements project with the Eleanor Dam Interim Bridge Repairs subproject into one single construction contract to attract more bidders. The project team is working on bid documents for contract advertisement in next quarter. For subproject (B), the project team continued to work with Operations department to define the project objectives and scope.

Issues and Challenges:

None at this time.



100% Design of Interim Bridge Repair Sub-Project; Survey Control & Staging Areas

10039119 - Early Intake Dam - Long Term

Project Description: Remove the existing deteriorated dam and construct a new concrete diversion structure and conveyance system within the existing Raker Act boundary to divert flows from Cherry Creek and Tuolumne River upstream of Kirkwood Powerhouse into Mountain Tunnel for SFPUC customers during emergencies.

Program: Joint Infrastructure	Project Status: Planning	Environmental Status: Not Initiated (TBD)
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Project Cost:		Project Schedule:	
Approved	\$ 100.07 M	Approved 07/01/23	12/31/35
Forecast	\$ 1.20 M	Forecast 07/01/23	12/31/35
Actual	\$ 0.99 M	Project Percent Complete: 4.7%	

No Data Available

Progress and Status:

The project remains on hold pending further direction and funding availability. The project team concluded current activities by issuing a Project Summary Report documenting the project history, key activities, and major deliverables to support future efforts when the project restarts.

Issues and Challenges:

As reported previously, the project will be re-baselined when sufficient funding is available in the capital program.



Early Intake Dam Spillway at Right Abutment

10014114 - Mountain Tunnel Improvement Project

Project Description: Constructed between 1917 and 1925, Mountain Tunnel (MT) is a critical, nonredundant link in the Hetch Hetchy Regional Water System, conveying SFPUC water supply from Kirkwood Powerhouse to Priest Reservoir. Due to the tunnel's 90 years of operation, deferred maintenance, and construction deficiencies from the early 1900s, sections of the tunnel have deteriorated, some more extensively than others. The Mountain Tunnel Inspection and Repairs Project provided a tunnel inspection in 2017 to update the Condition Assessment conducted in 2008. Short-term repairs were also made in 2017 and 2018 to reduce the risk of failures in the concrete lining prior to implementation of the long-term project. The Mountain Tunnel Improvements (Rehabilitation) Project was selected for the design and construction of the preferred engineering alternative that will keep this vital component of the Hetch Hetchy Regional Water System in reliable service for years to come. The budget and schedule are based on the Mountain Tunnel Improvements Project construction phase, which is anticipated to take place between 2021 and 2027. This is the water funded portion of the Mountain Tunnel projects. For the Mountain Tunnel Improvements Project, the water portion will rehabilitate the inside of the tunnel and extend the siphon at South Fork, along with related safety improvements to the roadways that access the Mountain Tunnel.

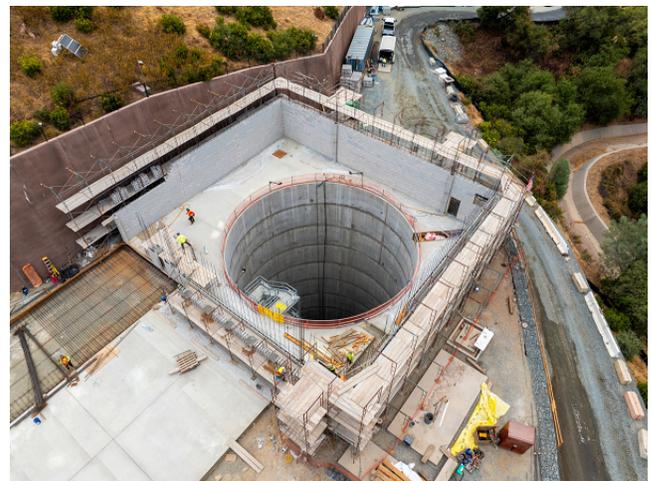
Program: Joint Infrastructure	Project Status: Construction	Environmental Status: Completed
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Project Cost:		Project Schedule:	
Approved		\$ 268.67 M	Approved 10/03/11  06/03/27
Forecast		\$ 268.67 M	Forecast 10/03/11  06/03/27
Actual		\$ 177.60 M	Project Percent Complete: 71.3%

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	A 01/14/20 A	11/13/19 A	01/29/21 A	12/03/26
	B N/A	12/11/23 A	09/23/24 A	06/30/26

Progress and Status:

Subproject A (HH-1000R) Mountain Tunnel Improvements: Work during this quarter consisted of continued construction of the Flow Control Facility (FCF) including completing about 50% of the building walls and constructing the interior building slab, crane and vehicle concrete pads. Work continued offsite fabricating the two remaining double disc knife gate valves and the flow control (sleeve) valves. Work also continued offsite fabricating the panels and electrical equipment for the control system inside the shaft and building. Commissioning and outage planning continued during this quarter. Also, an interim operation strategy was developed for use of the sleeve valves to prevent over pressurization of the tunnel due to the improvement work at South Fork being removed from the contract. Additional work will be required after the outage to provide pressure sensor communication to the SCADA system from Second Garrote and Big Creek shafts. Contracting strategies are being developed for the installation of fiber optic cables along the transmission lines. The work at Priest Adit involved constructing 50% of the concrete final lining inside the tunnel. At Early Intake, the steel bulkhead door/frame has been hung with rebar and concrete work to take place next quarter. Subproject B (HH-1013) Moccasin Water System Filtration Plant: The raw water vaults, sewer line and manholes were constructed in this quarter. The floor beams and steel columns are being modified due to the grade beam not being constructed according to the design elevations.



Flow Control Facility Walls and Slabs

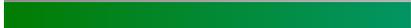
Issues and Challenges:

None at this time.

10037077 - Moccasin Old Powerhouse Hazard Mitigation

Project Description: Design and install mitigation measures to prevent the building from collapsing and to prevent hazardous materials (such as lead-based paint and asbestos) from contaminating Moccasin Reservoir.

Program: Joint Infrastructure	Project Status: Planning	Environmental Status: Active (EIR)
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Project Cost:		Project Schedule:	
Approved		\$ 13.47 M	Approved 01/01/21  07/01/32
Forecast		\$ 13.47 M	Forecast 01/01/21  07/01/32
Actual		\$ 1.01 M	Project Percent Complete: 15.6%

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	12/31/28	01/01/30	08/31/30	09/01/31

Progress and Status:

The project team continues to make progress on the environmental review process required to develop the Environmental Impact Report (EIR). Progress during this quarter included; 1) the issuance of the Notice-to-Proceed (NTP) to the environmental consultant authorizing them to begin preparation of the EIR and supporting documentation, 2) the Project Description (PD) was drafted and is currently under review with the Environmental Management Group (EMG), and 3) during a site visit, the project team captured photographs from various vantage points to use for the development of the visual simulations.



Existing Moccasin Old Powerhouse

Issues and Challenges:

None at this time.

10014108 - Canyon Tunnel - Hetchy Adit Rehab & OSH Bridge

Project Description: The project is to install a new reinforced concrete plug downstream of the existing plug in Hetchy Adit and rehabilitate O'Shaughnessy Adit Access Bridge including sub-structure retrofit and super structure replacement.

Program: Joint Infrastructure	Project Status: Design	Environmental Status: Active (MND)
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Project Cost:		Project Schedule:	
Approved	\$ 30.14 M	Approved 02/03/14	12/31/30
Forecast	\$ 30.14 M	Forecast 02/03/14	12/31/30
Actual	\$ 2.86 M	Project Percent Complete: 21.7%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	08/31/26	09/01/26	05/01/27	05/01/30

Progress and Status:

The project team received and reviewed the independent cost estimate and developed the second draft Mitigated Negative Declaration (MND). The design team reviewed the constructability comments on the substructure aspect of the O'Shaughnessy Adit Access bridge and will bring a consultant onboard to support the modeling, design, and cost estimate of the project.

Issues and Challenges:

None at this time.



Canyon Tunnel - Hetchy Adit Bulkhead

10014110 - Moccasin Wastewater Treatment Plant

Project Description: This project will replace the existing plant with a package two-train sequencing batch reactor (SBR) plant with grit removal and screening facilities, upgraded electrical and flow monitoring systems, flow equalization, SCADA instrumentation and automation features, and related site improvements.

Program: Joint Infrastructure	Project Status: Construction	Environmental Status: Completed (Cat Ex)
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Project Cost:		Project Schedule:	
Approved	\$ 15.38 M	Approved 01/03/22	02/20/28
Forecast	\$ 15.38 M	Forecast 01/03/22	02/20/28
Actual	\$ 6.49 M	Project Percent Complete: 45.1%	

Key Milestones	Environmental Approval	Bid Advertisement	Construction NTP	Construction Final Completion
Current Forecast	02/22/23 A	10/12/23 A	06/03/24 A	12/29/26

Progress and Status:

The construction is in progress. The contractor started to repair and patch the Sequential Batch Reactor (SBR) structure. Duct bank work is also ongoing. Contractor started application of the coating for the SBR internal walls. Conduits were laid down for the new transformer pad. Additional work is anticipated to overcome an elevation difference for a gravity flow line at the existing Influent Pump Station (IPS) Overflow. The team is evaluating possible elevation corrections or a pump installation solution, which may have potential budget and schedule implications.

Issues and Challenges:

None at this time.



SBR Walls with Forms Stripped

8. ON-GOING CONSTRUCTION*

Construction Contract	Schedule			Budget		Variance (Approved - Forecast)		Percent Complete
	NTP Date	Approved Construction Final Completion	Current Forecasted Construction Final Completion**	Approved Contract Cost	Current Forecasted Cost**	Schedule (Cal Days)	Cost	
Water Infrastructure								
10035575 - SJPL Valve & Safe Entry Improvement - (Contract A, HH-1005)	05/16/22	02/01/25	11/19/25	\$15,536,964	\$15,536,964	(291)	\$0	98.4%
10035575 - SJPL Valve & Safe Entry Improvement - (Contract C, HH-1012)	05/13/24	01/28/26	01/28/26	\$7,791,640	\$7,791,640	0	\$0	72.0%
10035575 - SJPL Valve & Safe Entry Improvement - (Contract D, HH-1016)	05/01/25	05/01/25	08/16/28	\$50,546,818	\$50,546,818	(1,203)	\$0	3.6%
10035575 - SJPL Valve & Safe Entry Improvement - (Contract E, HH-1009)	02/26/24	08/19/25	08/19/25	\$11,356,668	\$11,356,668	0	\$0	100.0%
Power Infrastructure								
10014086 - Moccasin Powerhouse Generator Rehab - (Contract B, DB-121R2)	08/15/22	01/07/26	01/07/26	\$30,365,245	\$30,365,245	0	\$0	94.1%
Joint Infrastructure								
10032903 - O'Shaughnessy Dam Outlet Works Phase 1 - Instream Flow Release (Contract C, HH-1011)	08/28/23	05/24/25	09/15/25	\$6,635,618	\$6,714,011	(114)	(\$78,393)	94.5%
10032903 - O'Shaughnessy Dam Outlet Works Phase 1 - Drainage & Misc. Dam Improvements (Contract B, HH-1015)	11/12/24	11/06/25	12/06/25	\$5,291,950	\$5,291,950	(30)	\$0	44.7%
10014114 - Mountain Tunnel Improvement - (HH-1000R)	01/29/21	12/03/26	12/03/26	\$141,920,409	\$142,092,795	0	(\$172,386)	74.6%
10014114 - Mountain Tunnel Improvement - (HH-1013)	09/23/24	06/30/26	06/30/26	\$4,189,035	\$4,189,035	0	\$0	38.9%
10014110 - Moccasin Wastewater Treatment Plant - (HH-1010)	06/03/24	12/29/26	12/29/26	\$7,557,665	\$7,557,665	0	\$0	37.0%

Note: * This table reflects Active Construction Contracts with an original contract amount greater than \$1M.

** The Forecasted Cost includes all approved, pending, and potential change orders; and Forecast Final Completion includes all approved, pending, and potential change orders, and trends.

8. ON-GOING CONSTRUCTION (continued)

Construction Contract	Schedule			Budget		Variance (Approved - Forecast)		Percent Complete
	NTP Date	Approved Construction Final Completion	Current Forecasted Construction Final Completion**	Approved Contract Cost	Current Forecasted Cost**	Schedule (Cal Days)	Cost	

	Approved	Current	Variance	
	Contract Cost	Forecast Cost	Cost	Percent
Program Total for On-Going Construction	\$281,192,012	\$281,442,791	(\$250,779)	(0.1%)

Note: * This table reflects Active Construction Contracts with an original contract amount greater than \$1M.

** The Forecasted Cost includes all approved, pending, and potential change orders; and Forecast Final Completion includes all approved, pending, and potential change orders, and trends.

9. PROJECTS IN CLOSEOUT

There are no projects in closeout.

10. COMPLETED PROJECTS

Project Title	Approved Project Completion	Actual Project Completion	Approved Project Budget	Project Expenditures To Date
Power Infrastructure				
10035721 - Transmission Lines 7/8 Upgrades	01/31/25	03/07/25	\$37,327,197	\$32,567,032
TOTAL			\$37,327,197	\$32,567,032

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APPENDICES

A PROJECT DESCRIPTIONS

B APPROVED PROJECT LEVEL BUDGETS/SCHEDULES

C LIST OF ACRONYMS



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APPENDIX A. PROJECT DESCRIPTION

WATER INFRASTRUCTURE

Water Conveyance (Water)

10035575 SJPL Valve and Safe Entry Improvement

San Joaquin Pipeline (SJPL) Nos. 1, 2, and 3 consist of three parallel transmission pipelines (completed in 1932, 1953, and 1968, respectively) that cross the San Joaquin Valley from the east of Foothill Tunnel at Oakdale Portal to the west of Coast Range Tunnel at Tesla Portal, a distance of approximately 48 miles. A fourth partial pipeline (SJPL 4 completed in 2012) consists of a 6.4-mile segment of pipe downstream of Oakdale and another 11-mile segment upstream of Tesla Portal. SJPLs deliver Tuolumne River water to the San Francisco Bay Area. They have been in service ranging from 11 to 91 years. SFPUC staff members and contractors need to enter the pipelines regularly to perform condition assessment, maintenance, and repair work. A recent hydraulic study shows that several of the existing valves in the SJPLs may be under-rated for the potential surge pressures that could be triggered from an unplanned closure of the valves at the downstream Tesla Ultraviolet Treatment Facility. For safety reasons, the SFPUC initiated this capital project to increase the pressure rating of the valves, provide safe pipeline isolations for personnel entry into the pipelines, and allow shutdown of any section of the SJPLs without a complete system shutdown.

10041725 SJPL Valve Remote Control and Monitoring

Design, procure, and construct new SJPL remote supervisory controls that would enable remote operation from Moccasin to remotely operate valve actuators. The project includes data telemetry improvements, Remote Terminal Unit (RTU) installation/replacement, trans-valley communication system upgrades, power system upgrades, security improvements, and access improvements.

Water Infrastructure Project Development

10014072 HHW- Water Project Development

The Project Development (PD) Account captures Program-level expenditures. The project provides programmatic support for Water funded capital projects. The following charges are allocated to the PD Account: 1) task orders for overall program management and project prioritization tasks, where the costs should be distributed over all CIP Projects; 2) infrastructure and Hetch Hetchy staff performing program-level tasks, including capital plan development, budget management (including fund management and cost reallocations), and unifier and quarterly report generation tasks, where the costs should be distributed over all CIP Projects; 3) portal support for the existing SharePoint Portal (including document management and project dashboard reporting); 4) work outreach program; and 5) City Attorney charges for contract development.

APPENDIX A. PROJECT DESCRIPTION

POWER INFRASTRUCTURE

Dams & Reservoirs (Power)

10014079 Cherry-Eleanor Pumps

Replace and upgrade pumps in Cherry Pump Station with units that work with current operating strategies. The scope of work includes: 1) replacement of pumps, transformer, and pump motor starters; 2) installation of Programmable Logic controller (PLC), SCADA system, and fiber optics; and 3) improvement of the existing motor control center (MCC) building.

Powerhouse

10036809 HHW - Moccasin Powerhouse Bypass Upgrade

Provide a reliable hydraulic bypass and energy dissipation system, conveying water around the turbines to the Moccasin Powerhouse Tailrace. Upgrade/replace high-pressure energy-dissipating valves, control systems, and associated structures to absorb 1,147 feet of pressure head and 430 cubic feet per second flow without damage.

10014086 Moccasin Powerhouse and GSU Rehabilitation

The project is broken down into three components: 1) Generator Rehabilitation – replace the entire generator and associated equipment, including new stator cores and coils, rotor poles, relays, and rotor rim; 2) GSU Replacement – replace two of the three existing generator step-up transformers (GSUs), new foundations and oil containment, and relay upgrades; and 3) Power Plant Systems Upgrades – replace the 480 V switchgear, 13.8 kV switchgear, motor control centers, main control boards, protective relays, cooling water piping, and improving oil containment systems.

Transmission Lines

10014089 Transmission Lines Clearance Mitigation

This project will provide funding to implement mitigation measures to resolve clearance discrepancies. Mitigation options include but are not limited to new towers/tubular poles, new intervening poles, tower raises, ground lowering, and other structural improvements to the lattice towers.

Switchyard & Substations (Power)

10014087 Warnerville Substation Rehabilitation Project

The additional funding request is to cover the remaining work for Warnerville Substation Rehabilitation Project. Under Design Build Contract #DB-127R, installation of some 230 kV equipment was deleted from the contract but procured, including circuit breakers, switches, insulators, and current voltage transformers. Remaining work includes the replacement of four oil circuit breakers, bushings, surge arrestors, disconnect switches, current voltage transformer, insulators, relay protection, and other ancillary equipment.

10039568 Moccasin Switchyard Rehabilitation

Replace 115 kV disconnect switches, replace 115 kV bus configuration, replace 230 kV disconnect switches, change 230 kV bus configuration, replace 115 kV circuit breakers, add surge arresters, perform a fault study, perform a grounding study, improve switchyard grading, and replace fencing.

Power Infrastructure Project Development

10014092 HHW- Power Project Development

The Project Development (PD) Account captures program-level expenditures. The project provides programmatic support for Power funded capital projects. The following charges are allocated to the PD Account: 1) task orders for overall program management and project prioritization tasks, where the costs should be distributed over all CIP Projects; 2) infrastructure and Hetch Hetchy staff performing program-level tasks, including capital plan development, budget management (including fund management and cost reallocations), and unifier and quarterly report generation tasks, where the costs should be distributed over all CIP Projects; 3) portal support for the existing SharePoint Portal (including document management and project dashboard reporting); 4) work outreach program; and 5) City Attorney charges for contract development.

APPENDIX A. PROJECT DESCRIPTION

JOINT INFRASTRUCTURE

Water Conveyance (Joint)

10014088 Moccasin Penstock Rehabilitation

In order to meet the established level of service, mitigate potential risks, and avoid potential consequences of failure, SFPUC is considering replacing the penstocks so that the life of the asset will be extended for another 75 to 100 years. Based on a preliminary study, a combination of a drop shaft, a tunnel and above grade pipes appears to be a favorable alternative. SFPUC will continue the study before determining the most appropriate alternative solution. For capital planning purposes, SFPUC assumes the alternative will include the following major elements: • A drop shaft of about 850 feet deep, • A new tunnel penstock of about 3,100 feet, and • A two 72 in. above-grade penstocks with a total length of 3,000 feet

Buildings (Joint)

10039680 Moccasin Engineering and Records Building

HHWP Project operations and administration is located in Moccasin, California, with facilities including buildings, office trailers, warehouses, shops, laboratories, and sheds. Many existing facilities are deteriorating, do not meet current building codes, and are incurring increased maintenance costs. HHWP needs to invest in new facilities to meet all applicable codes and standards; reduce maintenance costs; increase employee interconnectivity and productivity; properly store all staff, materials, records, and equipment; and meet energy-efficiency standards. HHWP prepared a report titled "Moccasin Facilities Upgrade Project – Alternatives Analysis and Evaluation Report Update". The report identified long-term needs for creating adequate office space for current staff in Moccasin. In addition, the report evaluated the needs for new, dedicated materials storage space, new records and archives space with offices, new space for servers, and parking space for staff. The Moccasin Engineering and Records Building project will address the need for permanent office space by constructing a new two-story building. Hetch Hetchy and Infrastructure staff are currently located in temporary trailers that have exceeded their useful life. The new building will provide office space for Hetch Hetchy Engineering, Records, Energy Services, Infrastructure, and ITS staff. The scope also includes a secure server room, parking lot, and archive/records storage. The budget and schedule for the project will be modified to provide permanent office space for both Hetch Hetchy and Infrastructure staff and to address escalation since the completion of the 2020 Alternatives Analysis Report estimate.

10041727 Moccasin Warehouse Building

The Moccasin Old Powerhouse was constructed in 1926 and abandoned in the 1960s. The building has multiple structural and nonstructural issues, including cracks, spalling of structural concrete, water intrusion, broken windows, settlement, hazardous materials, and seismic deficiencies. The building is currently used for storage of large equipment and critical spares for the Hetch Hetchy Water and Power system. As a result of the multiple issues, it was determined to demolish the building. A new warehouse is therefore necessary for the storage of the large equipment and critical spares for the Hetch Hetchy Water and Power system that was previously stored in the Moccasin Old Powerhouse. This project includes a construction of a new 9,000-square-foot warehouse within the Moccasin campus to store large equipment and critical spare components for the Hetch Hetchy Water and Power System. The building will include office space for warehouse staff including records retention for warehouse and materials documentation.

Dams & Reservoirs (Joint)

10032903

O'Shaughnessy Dam Outlet Works Phase 1

O'Shaughnessy Dam was completed in 1923 and raised in 1938. A condition assessment of the dam outlet works revealed the need for improvements to the existing outlet works, including gates and valves (1923 construction), to ensure safe and reliable operation. Based on engineering studies and prioritization of asset condition, needs, and risks, improvements to the existing outlet works will be implemented in two phases. Funding for this project will include work under Phase 1. Phase 2 of the O'Shaughnessy Dam Outlet Improvement Project begins in 2025. Work under Phase 1 will include: (1) replacement of two existing instream flow release valves; (2) improvements to access and drainage in the dam gallery and stairs; (3) installation of new bulkheads for the outlet intake; and (4) a planning phase and scoping for the slide gates and drum gates improvements.

10037351 Moccasin Dam & Reservoir Long Term Improvement

A heavy storm event in 2018 caused significant damage to the auxiliary spillway, upstream trash rack and diversion, and downstream area. Subsequent engineering studies concluded that improvements are needed to increase the spillway capacity to safely pass the updated design flood without overtopping the existing embankment dam. This project is needed for dam safety. This project will construct a new concrete spillway with adequate flow capacity along the alignment of the existing auxiliary spillway and additional flood protection to the Moccasin project facilities.

10014115 Cherry Dam Spillway - Short Term Improvements

Cherry Dam Spillway is a 334 foot-wide ogee-type concrete weir that discharges into an unlined adjacent channel. The spillway capacity is designed for 52,000 cfs. A spill of 1,500 cfs in 2010 resulted in significant erosion damage to the unlined spill channel, large-scale erosion along the western segment of Cherry Dam, and flooding of Cherry Power Tunnel Adit and a campground downstream. Engineering studies showed that remedial measures and erosion protection for the spill channel are needed to ensure that spill flows from Cherry Valley Dam spillway can be contained without erosion damage to the existing embankment dam and downstream area. Studies also found that long-term improvement to the spillway is needed to increase the hydraulic capacity of the spillway to safely pass the design flood. This project is a short-term interim solution until the long-term spillway improvements are implemented. This project will reestablish containment for the breached spill channel section from the 2010 spill and install armoring to protect the upper spill channel section against erosion from spillway releases of up to 2,000 cubic feet per second.

10030759 Eleanor Dam Rehabilitation

Mitigation alternatives will include improvements to increase spill capacity to safely pass the design flood, installation of a liner on the upstream face of the dam, concrete repairs, valve replacement, and installation of concrete lining and riprap for foundation armoring, and replacement of the existing bridge.

10039119 Early Intake Dam - Long Term

Remove the existing deteriorated dam and construct a new concrete diversion structure and conveyance system within the existing Raker Act boundary to divert flows from Cherry Creek and Tuolumne River upstream of Kirkwood Powerhouse into Mountain Tunnel for SFPUC customers during emergencies.

O'Shaughnessy Dam Outlet Works Phase 2

O'Shaughnessy Dam was completed in 1923 and raised in 1938. A condition assessment of the dam outlet works revealed the need for improvements to the existing outlet works, including gates and valves (1923 construction), to ensure safe and reliable operation. Based on engineering studies and prioritization of asset condition, needs, and risks, improvements to the existing outlet works will be implemented in two phases. The O'Shaughnessy Dam Outlet Works Phase 1 Project is described under Project Number

10032903 and is currently in the design and construction phases. Phase 2 of the O'Shaughnessy Dam Outlet Improvement Project will begin in 2025 and will include replacement and/or refurbishment of eight discharge valves, rehabilitation of three drum gates, refurbishment of twelve slide gates, installation of a new diversion pipe isolation valve, and improvements for the diversion tunnel. The project will include: (1) replacement of six 60-inch and one 72-inch discharge needle valves; (2) refurbishment of one 72-inch discharge butterfly valve; (3) rehabilitation of three drum gates; (4) refurbishment of twelve slide gates; (5) installation of a new diversion pipe isolation valve; and (6) improvements for the diversion tunnel.

Mountain Tunnel

10014114 Mountain Tunnel Improvement Project

Constructed between 1917 and 1925, Mountain Tunnel (MT) is a critical, nonredundant link in the Hetch Hetchy Regional Water System, conveying SFPUC water supply from Kirkwood Powerhouse to Priest Reservoir. Due to the tunnel's 90 years of operation, deferred maintenance, and construction deficiencies from the early 1900s, sections of the tunnel have deteriorated, some more extensively than others. The Mountain Tunnel Inspection and Repairs Project provided a tunnel inspection in 2017 to update the Condition Assessment conducted in 2008. Short-term repairs were also made in 2017 and 2018 to reduce the risk of failures in the concrete lining prior to implementation of the long-term project. The Mountain Tunnel Improvements (Rehabilitation) Project was selected for the design and construction of the preferred engineering alternative that will keep this vital component of the Hetch Hetchy Regional Water System in reliable service for years to come. The budget and schedule are based on the Mountain Tunnel Improvements Project construction phase, which is anticipated to take place between 2021 and 2027. This is the water funded portion of the Mountain Tunnel projects. For the Mountain Tunnel Improvements Project, the water portion will rehabilitate the inside of the tunnel and extend the siphon at South Fork, along with related safety improvements to the roadways that access the Mountain Tunnel.

Powerhouse (Joint)

10037077 Moccasin Old Powerhouse Hazard Mitigation

Design and install mitigation measures to prevent the building from collapsing and to prevent hazardous materials (such as lead-based paint and asbestos) from contaminating Moccasin Reservoir.

Tunnels (Joint)

10014108 Canyon Tunnel - Hetchy Adit Rehab & OSH Bridge

The project is to install a new reinforced concrete plug downstream of the existing plug in Hetchy Adit and rehabilitate O'Shaughnessy Adit Access Bridge including sub-structure retrofit and super structure replacement.

Utilities (Joint)

10014110 Moccasin Wastewater Treatment Plant

This project will replace the existing plant with a package two-train sequencing batch reactor (SBR) plant with grit removal and screening facilities, upgraded electrical and flow monitoring systems, flow equalization, SCADA instrumentation and automation features, and related site improvements.

Joint Infrastructure Project Development

10014116 HHW- Joint Project Development

The Project Development (PD) Account captures program-level expenditures. The following charges are

allocated to the joint funded PD Account: 1) task orders for overall program management and project prioritization tasks, where the costs should be distributed over all CIP Projects; 2) infrastructure and HHWP staff performing program-level tasks, including capital plan development, budget management (including fund management, and cost reallocations), and unifier and quarterly report generation tasks, where the costs should be distributed over all CIP projects; 3) portal support for the existing SharePoint portal (including document management and project dashboard reporting); 4) work outreach program; and 5) City Attorney contract development charges.

APPENDIX C. LIST OF ACRONYMS

AWWA	American Water Works Association
Cat Ex	Categorical Exemption
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CER	Conceptual Engineering Report
CIP	Capital Improvement Program
CM/GC	Construction Manager/General Contractor
CFS	Cubic Feet Per Second
DB	Design-Build
EIR	Environmental Impact Report
FY	Fiscal Year
GSU	Generator Step-Up
GWH	Gigawatt Hours
HCIP	Hetch Hetchy Capital Improvement Program
HH	Hetch Hetchy
HHWP	Hetch Hetchy Water and Power
IFR	Instream Flow Release
kV	Kilovolts
MCC	Motor Control Center
MND	Mitigated Negative Declaration
MT	Mountain Tunnel
NCN	Non-Conformance Notice
NTP	Notice to Proceed
OSH	O'Shaughnessy Dam
PD	Project Development
PG&E	Pacific Gas and Electric
PLC	Programmable Logic Controller
RFI	Requests for Information
R&R	Renewal and Replacement
SBR	Sequence Batch Reactor
SCADA	Supervisory Control and Data Acquisition
SFPUC	San Francisco Public Utilities Commission
SJPL	San Joaquin Pipeline
TBD	To Be Determined
TSC	Technical Steering Committee

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