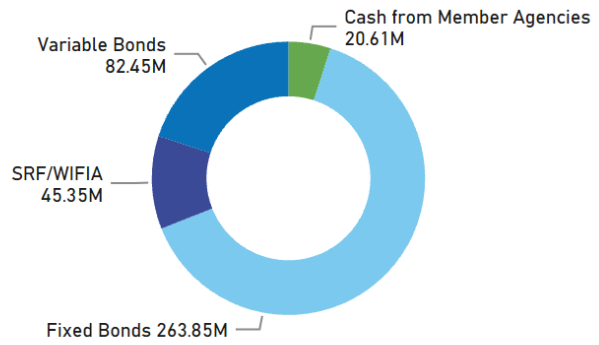
Overview

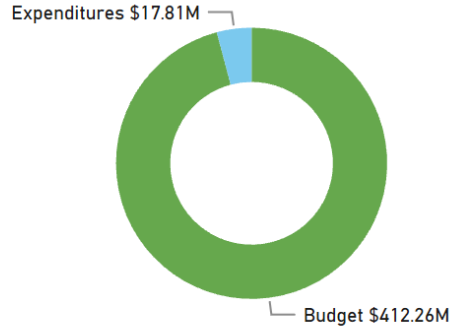
RESCU Program describes eleven projects which constitute full replacement and rehabilitation of SVCW's conveyance system. RESCU includes the Gravity Pipeline, Front of Plant, Pump Stations, and Belmont Force Main projects. The Front of Plant includes six of the eleven projects. The Conveyance System Improvements Environmental Impact Report completed and adopted by the SVCW Commission in April 2017 covers work to be done under all the RESCU Program projects.

Available Budget	Total Expenditure	Remaining Budget
$412.26M	$17.81M	$394.45M

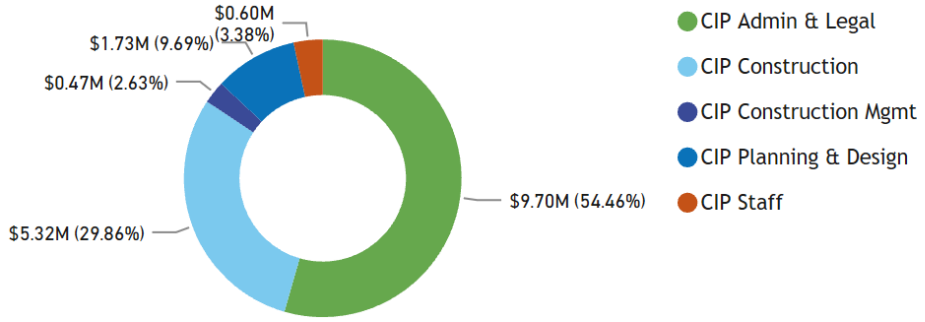
Source of Funds (per LRFP 2018)



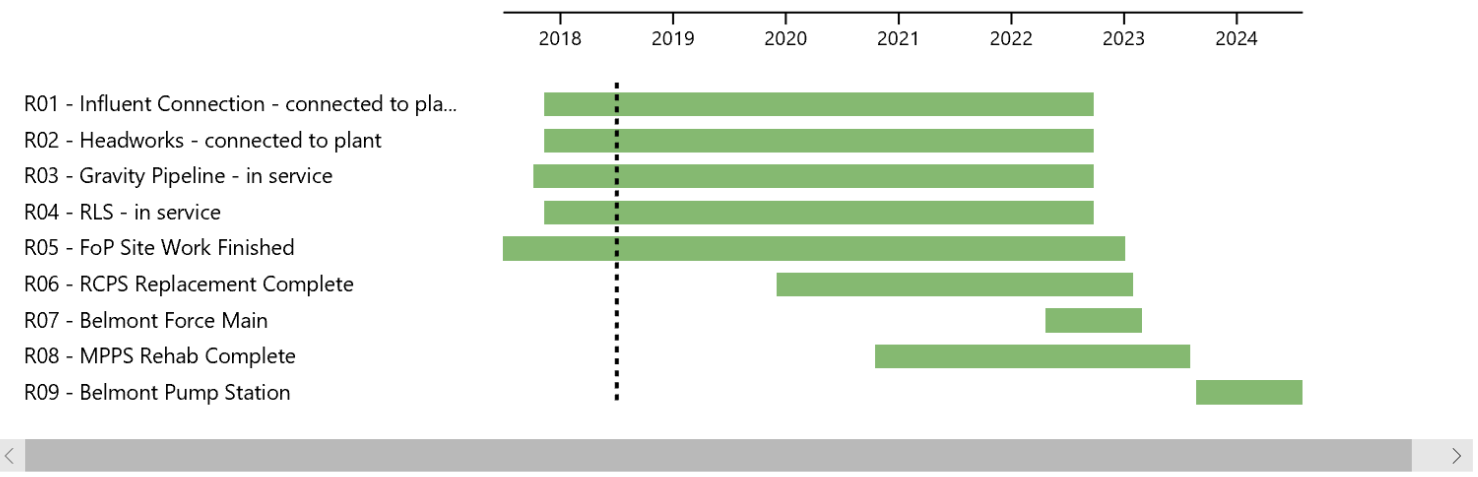
Budget vs Expenditures



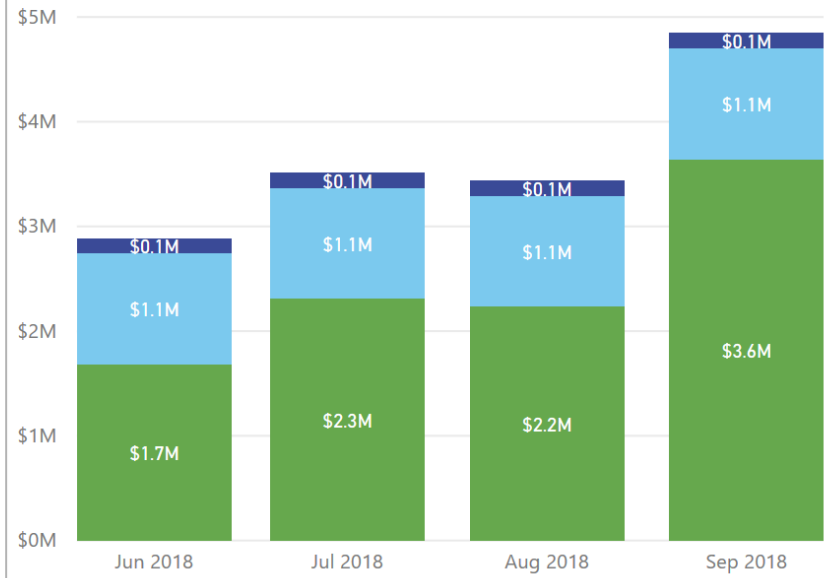
Expenditures by Object



Construction Schedule



3 Month Cash-Flow



As of : 2018 - 06

AGENDA ITEM 5F

Front of Plant Progressive DB Project

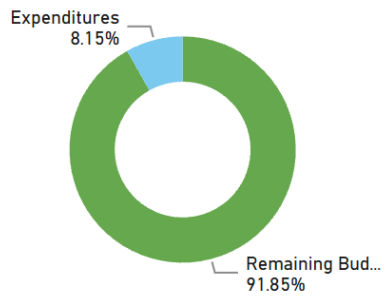
The Front of Plant (FoP) Project consists of the design, construction, permitting, start-up, commissioning, and closeout for Receiving Lift Station (RLS), Headworks Facility, Odor Control Facilities, Influent Connector Pipe, Chemical Offload Facilities, Civil site work, Emergency Overflow pipe to storage basin and related process support systems. Work is being implemented under a Progressive Design-Build procurement process in stages.

Available Budget	Total Expenditure	Remaining Budget
$123.55M	$10.91M	$112.59M

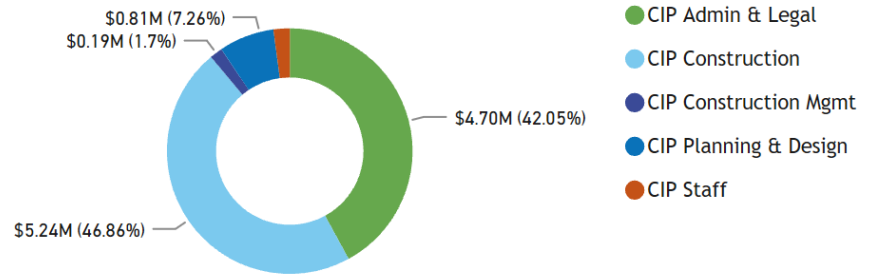
Milestone Schedule

	Start	Finish
Notice to Proceed - Stage 1 Services	11/28/2017	
Basis of Design Report (BODR)		7/20/2018
30 Percent (%) Design Documents		8/7/2018
60 Percent (%) Design Documents		10/4/2018
Stage 2A - Piles		6/14/2018
Stage 2B - RLS Shaft Preparation		7/12/2018
Stage 2C - RLS Shaft Construction		8/23/2018
Stage 2D - Balance of Stage 2 Work		12/13/2018
Stage 1 Services Complete		12/13/2018

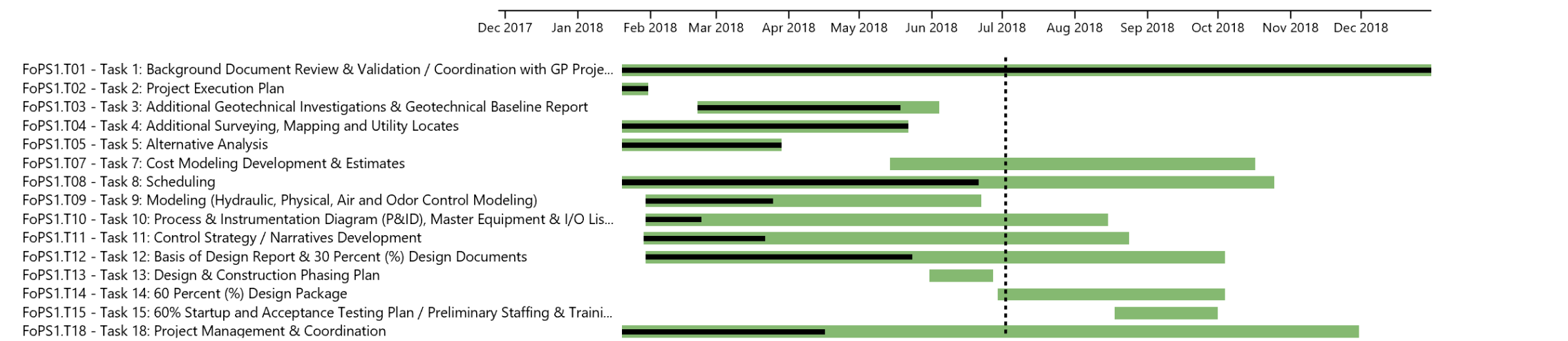
Budget vs Expenditures



Expenditures by Object



Schedule



As of : 2018 - 06

Front of Plant Progressive DB Project

Major Accomplishments this Period

Design	- Submitted the BODR for review - Continued development of RLS, including pump layouts, pipe sizing, and valving - Continued computational fluid dynamics modeling for RLS - Continued discussions related to surge protection as input to the CFD model - Continued the design of the Retreival/Surge Shaft after the scope of work was transfered the GP project to the FoP project - Established Headworks building design and associated process controls - Finalized RLS shaft base design criteria - Finalized the Headworks building footprint and pile design - Complete survey work - Continued effort to reduce project costs to keep GP under budget
Procurement of Trade Packages	- Outreach in conformance with SRF and WIFIA funding requirements - Selected an SOE subcontractor - Completed a June 2018 early release package for the concrete pile work - Working towards a July 2018 early release package for the mobilization and preparation work for the RLS Shaft - Working towards an August 2018 early release package for the construction of the the RLS Shaft
Construction	- None

Upcoming Key Activities

Finalize results from physical modeling of RLS
Finalize piles design and specifications
Finalize BODR comments
Continue detailing RLS and Headworks facilities
Submit 30% Design Package

3 - Month Look Ahead

	Start	End	July	August	September
Physical RLS Hydraulic Model Results	April 30, 2018	July 20, 2018	X		
Finalize Basis of Design Report Package	May 11, 2018	July 20, 2018	X		
BODR Cost Estimate	June 12, 2018	July 20, 2018	X		
Submit/Review/Finalize 30% Design Package	July 11, 2018	August 7, 2018	X	X	
Submit/Review/Finalize 60% Design Package	September 24, 2018	November 8, 2018			X
Prepare/Negotiate/Finalize Stage 2 Early Release Packages (RLS Shaft)	June 14, 2018	August 23, 2018	X	X	

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

As of : 2018 - 06

Gravity Pipeline Progressive DB Project

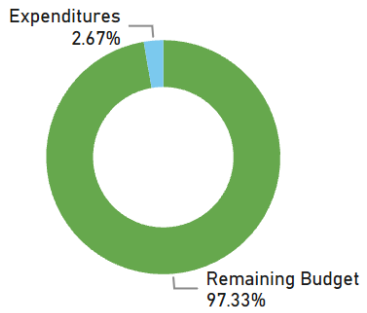
The Gravity Pipeline (GP) Project consists of the design, construction, permitting, start-up, commissioning, and closeout of approximately 17,600 feet of wastewater gravity FRP pipe inside a concrete-segment tunnel. The work includes three shafts and will interface directly with the Front of Plant (FoP) Project at the Receiving Lift Station (RLS). Work is being implemented under a Progressive Design-Build procurement process.

Available Budget	Total Expenditure	Remaining Budget
$221.88M	$6.00M	$215.78M

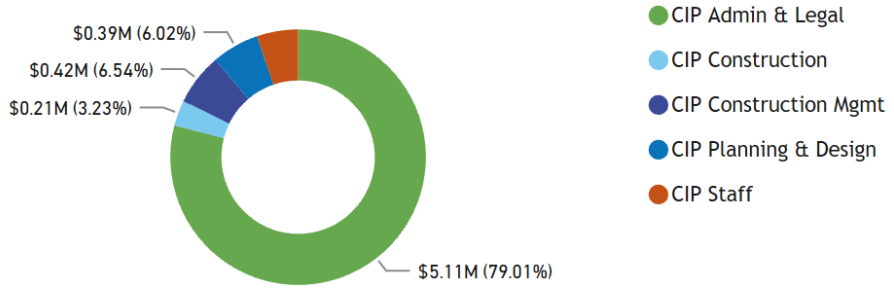
Milestone Schedule

	Start	Finish
Notice to Proceed - Stage 1 Services	10/13/2017	
Basis of Design Report (BODR)		6/19/2018
30 Percent (%) Design Documents		9/5/2018
60 Percent (%) Design Documents		11/21/2018
Stage 2A Approval - TBM Purchase, Airport Clear and Grub		8/23/2018
Stage 2B Approval - Concrete Segments and Airport Shaft SOE		10/11/2018
Stage 2C Approval - Balance of Stage 2 Work		12/13/2018
Stage 1 Services Complete		12/13/2018

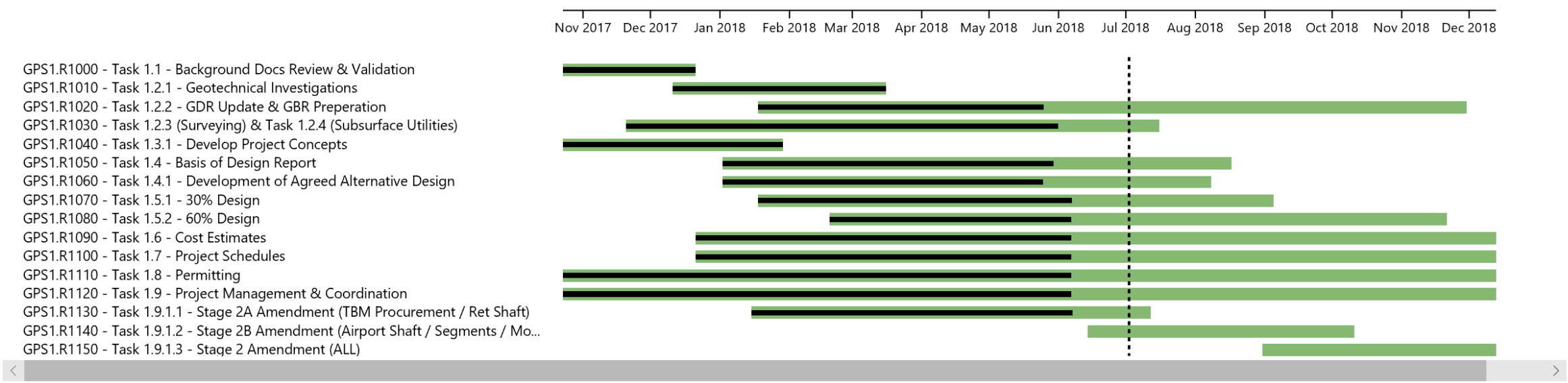
Budget vs Expenditures



Expenditures by Object



Schedule



As of : 2018 - 06

Gravity Pipeline Progressive DB Project

Major Accomplishments this Period

Design	- Completed GBR for the TBM manufacturer, continuing efforts on Project GBR - Continued sediment transport modeling - Continued air flow and H2S concentration modeling. Coordinating with FoP DB team - Progressed Airport Access Shaft design to 60% - Completed survey work
Procurement of Trade Packages	- Continued selection process for SOE Subcontractors - Ongoing discussions with FRP pipe manufacturers - Received pricing from TBM manufacturers, in review - Continued selection process for conveyor system - Outreach in conformance with SRF and WIFIA funding requirements
Construction	- None

Upcoming Key Activities

- Geotechnical Baseline Report
- Airflow and grit transport modeling
- Airport Access shaft PG&E coordination
- Inner Bair Island retrieval shaft design
- Cost Reduction efforts to keep GP under budget
- Stage 2 Amendment Pricing

3 - Month Look Ahead

	Start	End	July	August	September
Geotechnical Baseline Report	January 10, 2018	November 7, 2018	X	X	X
San Carlos Shaft Design (30% Design)	June 19, 2018	July 26, 2018	X		
Tunnel Design (30% Design)	May 29, 2018	July 19, 2018	X		
Hydraulic Design (30% Design)	May 7, 2018	July 19, 2018	X	X	X
Bair Island Shaft Design (60% Design)	June 7, 2018	August 20, 2018	X	X	
Airport Access Shaft Design (100% Design)	April 9, 2018	August 23, 2018	X	X	
TBM Procurement (Stage 2A Proposal)	January 22, 2018	August 23, 2018	X	X	

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

As of : 2018 - 06

Pump Stations

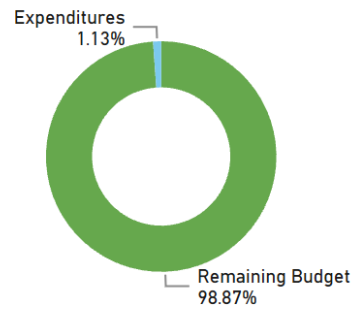
All SVCW pump stations require replacement or rehabilitation. Menlo Park PS will be rehabilitated. Redwood City PS will be replaced. Belmont PS will be rehabilitated. San Carlos PS is no longer needed due to the new gravity pipeline; flows from San Carlos and Belmont will enter into the gravity pipeline via a drop structure at the current San Carlos pump station site. Flows from the MPPS and RCPS will flow through the new 48-inch force main to a drop structure at Inner Bair Island.

Available Budget	Total Expenditure	Remaining Budget
$66.83M	$735.78K	$66.07M

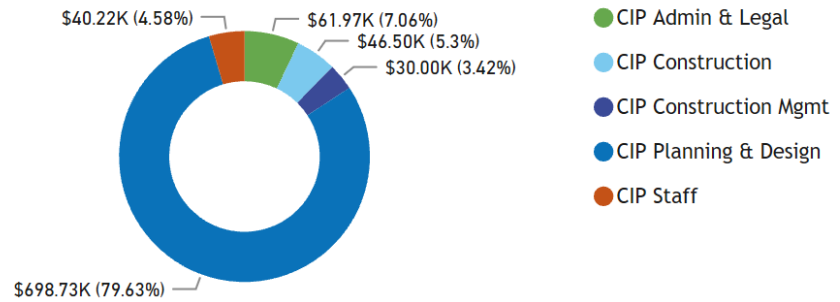
Milestone Schedule

	Start	Finish
Recommend Procurement Process to Commission		6/14/2018
Issue Request for Qualifications		7/13/2018

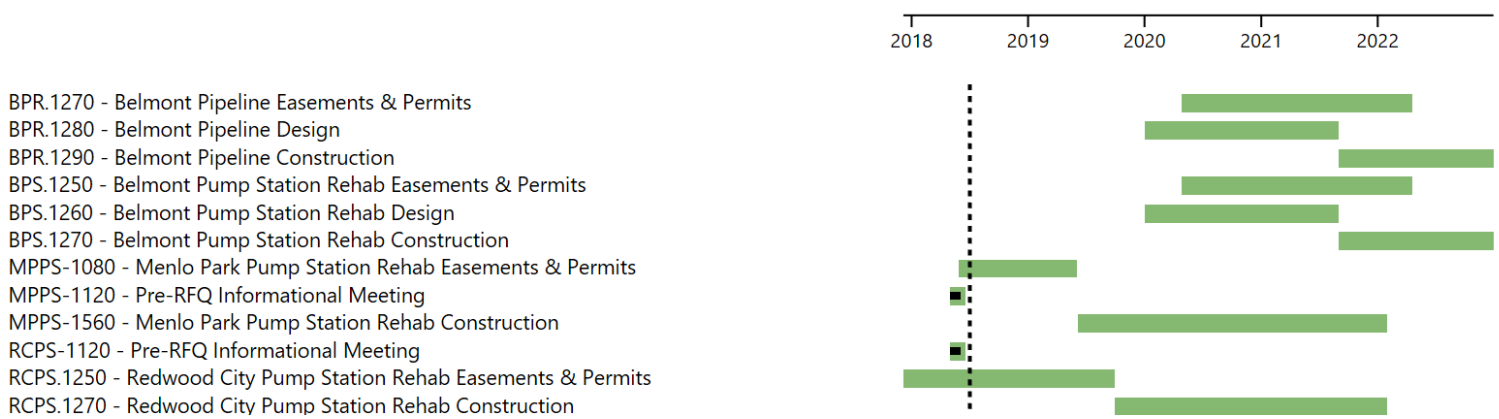
Budget vs Expenditures



Expenditures by Object



Schedule



As of : 2018 - 06

Pump Stations

Major Accomplishments this Period

Design	- Significant interaction with SVCW O&M team and design team - Preliminary decisions on MPPS: no bar screens, no valving to FEF, add trash rack, use chopper pumps; all decisions to be verified - Preliminary decisions on RCPS: bar screens - Decision: RCPS a wet well/dry well PS -Coordinated design build contractor outreach for RFQ process

Upcoming Key Activities

- Menlo Park PS prepare Basis of Design
- Redwood City PS prepare Basis of Design
- Belmont PS and Connector Pipe Basis of Design
- Package all pump station work into Bridge Documents
- Issue Design Build RFQ

3 - Month Look Ahead

	Start	End	July	August	September
Issue Design Build RFQ	July 12, 2018	July 12, 2018	X		
SOQ Submission/Interview/Shortlist	July 30, 2018	September 30, 2018	X	X	X

Safety Spot Light

Category	Value
Lost Time	0
Near Misses	0
Recorded Losses	0

As of : 2018 - 06